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INDEX IV TO THE LITERATURE OF  
AMERICAN ECONOMIC ENTOMOLOGY





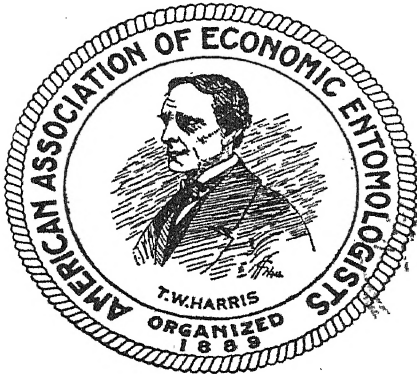
INDEX IV  
TO THE  
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AMERICAN ECONOMIC  
ENTOMOLOGY

January 1, 1925 to December 31, 1929

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*Compiled by*  
MABEL COLCORD

*Edited by*  
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AMERICAN ASSOCIATION OF ECONOMIC ENTOMOLOGISTS  
MELROSE HIGHLANDS, MASS.

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## INTRODUCTORY

This Index is a continuation of Indexes I to III of American Economic Entomology, a series continuing the older bibliographies of American Economic Entomology by Samuel Henshaw and Nathan Banks. The preceding Indexes were prepared with the cooperation of Dr. L. O. Howard, late Chief of the Bureau of Entomology. This Index has been made possible through the cooperation of Dr. C. L. Marlatt, Chief of the Bureau of Entomology, U. S. Department of Agriculture, who kindly detailed Miss Mabel Colcord, librarian of the Bureau, to have charge of the preparation of the manuscript. To her and her assistants as well as to Dr. Marlatt, the economic entomologists of the world are indebted for the compilation of an immensely serviceable work.

The Index when turned over to the Editorial Board comprised 1905 manuscript pages, which would have made approximately 590 printed pages. It was considered necessary, as in preceding Indexes, to reduce the size of the volume without seriously impairing its value. The immense number of references made it impracticable to consult every citation and there are doubtless many errors of omission, both passive and active, for which the editor will probably be held responsible. There has also been a consolidation of references in cases where papers contained notices of many species, especially those of presumably minor economic importance. Although there are a number of authors with the same surname and initials are not included in the Index, their omission should not result in material confusion.

The following rules were adopted for guidance in the editing of this work:

The scope was limited to temperate and subtropical America, thus the extreme north and the Hawaiian and Philippine Islands were excluded, except in cases where references to the literature of these areas appeared to be of considerable importance.

Only the better established or well known common names have been retained. Those approved by the Committee on Nomenclature of the American Association of Economic Entomologists have been starred (\*).

Anonymous articles in the agricultural press have been largely excluded, and all in farm papers in the case of a species or topic with numerous citations. The omission of such literature is indicated by a double dagger (§) and in some cases citations of official press bulletins or circulars, the more ephemeral literature, have been omitted because data of value in these media are very likely to appear in bulletins or reports.

The nature of general works is so well indicated by the title that in order to avoid duplication only the work as a whole or a few of the more important subdivisions have been indexed, and in some cases, the names of relatively unknown insects have also been excluded.

The publication of the work was authorized by the American Association of Economic Entomologists and the committee charged with the supervision and execution of the project has endeavored to carry out the original intent of the organization. It is the hope of the undersigned that this volume like its predecessors, will amply justify itself in making readily available the voluminous and scattered literature relating to the economic insects of America.

E. P. FELT,  
D. M. DeLONG,  
C. W. COLLINS,

*Editorial Board*



# INDEX TO THE LITERATURE OF AMERICAN ECONOMIC ENTOMOLOGY

JANUARY 1, 1925, TO DECEMBER 31, 1929

By MABEL COLCORD

The following Index to the Literature of American Economic Entomology for the five year period July 1, 1924 to December 31, 1929, inclusive, is a continuation of the Bank's Index, 1905 to 1914 and of the Colcord Indexes 1915 to 1924. All of these are but modified extensions of the Bibliography of American Economic Entomology published by the United States Department of Agriculture, Division of Entomology, (now Bureau of Entomology), 1889 to 1905, Parts I-V by Samuel Henshaw, Parts VI-VIII by Nathan Banks.

The plan of the Bank's Index has been closely followed. The insect and other headings are arranged alphabetically; references are alphabetic by author under the insect name and chronologic under each author. Practically all anonymous articles have been omitted.

The references have been made as short as possible and we hope may be readily deciphered after reading the following explanation and referring, when necessary, to the list of abbreviations.

"B" means bulletin, "C", circular, "R", report, "P. B.", press bulletin. Publications of the various agricultural experiment stations are referred to simply by State and number of bulletin, circular or report—e.g. "Fla. B. 147" means Florida Agricultural Experiment Station Bulletin No. 147. "Fla. Ext. B. 37" means Florida Agricultural Experiment Station Extension Bulletin No. 37. The New York Cornell Station bulletins are referred to as "N. Y. C. B." and the Geneva Station bulletins as "N. Y. Geneva B." or "N. Y. Gen. B." The Bulletins of the U. S. Department of Agriculture are "U. S. D. A. B." or "USDAB", the Yearbook articles are "U. S. Y. B.", the Farmers' bulletins are "U. S. F. B.", the Proceedings of the U. S. National Museum are "P. U. S. N. M.", or "PUSNM", and the Bulletins of the American Museum of Natural History are "B. A. M. N. H.", or "BAMNH."

"Pr." or "Proc.", sometimes "P.", are used for Proceedings, "J." or "Jr." for Journal. The words "State" and "Annual" are usually omitted in the references, although in a few cases "St." (State) is retained because of possible confusion. The first figure after the "B" or "R" indicates the number of the volume (if a periodical), or of a bulletin or report and the next figure the page. If three or more figures appear in the same reference the first is always the volume, the second the number in the volume and the third the number of the page in the number: a semicolon follows the volume in all such cases,—e.g. "Howard, Better Fruit 15; 12, 3, 1921" means an article by Howard in Better Fruit, volume 15, number 12, page 3, published in 1921. "M" or "Mem." are used for Memoir, e.g. "N. Y. C. M. 48" means New York Cornell University Agricultural Experiment Station Memoir 48. Author's references to a series of publications have been combined, the numerals for the different publications being separated by a colon (:). Marginal letters or symbols have the following significance—"n" means that the species described is new, double dagger (‡) following the name of the insect means that some of the presumably less important references have been deleted by the editor, "i" that the article is illustrated, "b" that the article contains a bibliography. Starred (\*) common names are those approved by the Committee on Nomenclature of the American Association of Economic Entomologists. The year of publication has been added to all references as it is oftentimes a great help in determining the

article wanted,—e.g. "N. J. R. 1923" might mean either the New Jersey Agricultural Experiment Station Report for 1923 published in 1924, or the Report for 1922 published in 1923. If it reads "N. J. R. f. 1923" there can be no mistake, and if 1924 is added at the end of the reference, the date of actual publication is beyond doubt.

In questions of synonymy standard catalogues have been followed—e.g. Leng for Coleoptera, Barnes for Lepidoptera, Aldrich for Diptera, Van Duzee for Hemiptera, etc., etc. In a few cases authorities consulted have thought it better to use an old name well established rather than a new one not so well known, e.g., *Car-pocapsa pomonella* rather than *Cydia pomonella*. In all such cases references have been made from the new name to the old. The systematists at the U. S. National Museum have very kindly determined the more difficult questions of synonymy; for

Coleoptera, Drs. A. G. Boving and E. A. Chapin, Messrs. H. S. Barber, L. L. Buchanan and W. S. Fisher.

Lepidoptera, Dr. William Schaus, Messrs. August Busck and Carl Heinrich.

Diptera, Dr. J. M. Aldrich, Mr. C. T. Greene.

Hymenoptera, Mr. A. B. Gahan, Mr. R. A. Cushman and Miss Grace Sandhouse.

Orthoptera and Neuroptera, Mr. A. N. Caudell.

Hemiptera, Drs. A. C. Baker and W. L. McAtee.

Odonata, Mr. R. P. Currie.

Coccidae, Dr. Harold Morrison.

Ectoparasites and mites, Dr. H. E. Ewing.

Termites, Dr. T. E. Snyder.

Diseases of insects, Dr. G. F. White.

As for earlier indexes so for this, members of the economic staff of the Bureau have given many helpful suggestions as to matter to be included. We are especially indebted to Drs. L. O. Howard, W. H. Larrimer, F. C. Craighead, E. A. Back, and R. T. Cotton, and to Messrs. W. R. Walton, J. E. Graf, J. S. Wade, W. H. White, F. C. Bishopp, J. L. Webb and J. A. Hyslop. Most of the actual indexing was done by Miss Marie A. Maxwell and Miss Mildred DeHart, whose devotion to the work has greatly facilitated its early completion. To Dr. A. L. Quaintance our thanks are again due for arranging for adequate assistance in copying the manuscript. Miss C. R. Barnett, Librarian of the U. S. Department of Agriculture, again gave us most helpful cooperation in making available many books needed for indexing and in assigning desk space in the Department Library to one of our assistants while the work was in progress. To our own Bureau Library staff our thanks are again due for a fine spirit of cooperation throughout the long period of compilation.

#### BOOKS INDEXED AS A WHOLE OR ONLY THEIR MORE IMPORTANT SUBDIVISIONS

Blatchley, W. S. Heteroptera or true bugs of eastern North America. 1926.

Campbell, C. A. R. Bats, mosquitoes and dollars. 1925.

Carpenter, G. H. Biology of insects. 1928.

Chandler, A. C. Animal parasites and human diseases. Ed. 3 rev. 1926.

Chapman, R. N. Animal ecology with special reference to insects. 1925.

Cockerell, T. D. A. Zoology of Colorado. 1927.

Comstock, J. A. Butterflies of California. 1927.

Comstock, J. H. Introduction to entomology. Ed. 2. 1925.

DuPuy, W. A. Our insect friends and foes. 1925.

Dyar, H. G. The mosquitoes of the Americas. 1928.

Essig, E. O. Insects of Western North America. 1926.

- Ewers, H. H. The ant people. 1927.
- Ewing, H. E. A manual of external parasites. 1929.
- Fox, Carroll. Insects and disease of man. 1925.
- Funkhouser, W. D. Membracidae. 1927.
- Garman, Philip. The Odonata or dragonflies of Connecticut. 1927.
- Graham, S. A. Principles of forest entomology. 1929.
- Gregory, C. T. and Davis, J. J. Common garden pests. 1929.
- Henderson, Junius. The practical value of birds. 1927.
- Herrick, G. W. Insects injurious to the household. Rev. ed. 1926.
- Hume, H. H. The cultivation of citrus fruits. 1926.
- International congress of entomology 4. Transactions v. 2. 1929.
- International Corn borer investigations. Scientific reports. v. 1-2. 1927-1929.
- Johnson, C. W. List of the Diptera or two-winged flies. 1925.
- Mason, A. F. Spraying, dusting and fumigating of plants. 1928.
- Matheson, Robert. Handbook of the mosquitoes of North America. 1929.
- Metcalf, C. L. and Flint, W. P. Destructive and useful insects. 1928.
- Metcalf, Z. P. and Metcalf, C. L. Key to the principal orders and families of insects. Ed. 2. 1927.
- Needham, J. G. and Needham, P. R. Guide to the study of fresh water biology with special reference to aquatic insects. 1927.
- Needham, J. G. and Haywood, H. B. Handbook of the dragonflies of North America. 1929.
- Needham, J. G., Frost, S. W. and Tothill, B. H. Leaf mining insects. 1928.
- Phillips, M. G. Ant hills and soap bubbles. 1927.
- Reinhard, E. G. Witchery of wasps. 1929.
- Robertson, Charles. Flowers and insects. 1928.
- Rosenau, M. J. Preventive medicine. Ed. 5. 1927.
- Snodgrass, R. E. Anatomy and physiology of the honey bee. 1925.
- U. S. War department. Surgeon General's Office. The medical department of the U. S. army in the world war. 1926.
- Walker, M. H. Story of the Mediterranean fruit fly. 1929.
- Weed, C. M. and Dearborn, Ned. Birds in their relation to man. Ed. 2 rev. 1924.
- Wheeler, W. M. Foibles of insects and man. 1928.
- Wheeler, W. M. The social insects. 1928.
- Wilson, Andrew. Insects and their control. 1929.



## LIST OF ABBREVIATIONS

Acad. = Academy	Elev. = Elevator
Adm. = Administrative	Eng. = Engineering
Adv. = Advancement	Ent. = Entomologist, Entomology
Advoc. = Advocate	Exch. = Exchange
Agr. = Agriculture, Agriculturist, Agri-cultural	Exp. = Experimental
Am. or Amer. = American	Exterm. = Extermination
Ann. = Annals, Annual	Farm. = Farmer
App. = Appendix	Fed. = Federal
Archiv. = Archives	Fert. = Fertilizer
Assoc. = Association	Flor. = Florist
B. = Bulletin	For. = Forestry
B. C. = British Columbia	Fr. = Fruit
Bank. = Banker	Fumig. = Fumigation
Bd. = Board	Fung. = Fungicide
Bien. = Biennial	Gard. = Gardeners, Gardening
Biol. = Biological	Gaz. = Gazette
Bost. = Boston	Gen. = General
Br. = Branch	Gentl. = Gentleman
Bul. = Bulletin	Geog. = Geographic
Bur. = Bureau	Geol. = Geology
C. = Circular	Gr. = Grain
C. when after N. Y. = Cornell	Grow. = Grower
C. Gentl. = Country Gentleman	Homest. = Homestead
Can. = Canada	Hort. = Horticulture, Horticulturist
Clem. = Clemson	Hosp. = Hospital
Coll. = College	Hyg. = Hygiene, Hygienic
Comm. = Commission	Illus. = Illustrated
Comp. = Comparative	Impl. = Implement
Confer. = Conference	Indus. = Industrialist
Cong. = Congress	Infec. = Infectious
Conserv. = Conservation	Infor. = Information
Cont. = Contribution	Inj. = Injurious
Conv. = Convention	Ins. = Insect
Coop. = Cooperative	Insect. = Insecticide
Cranb. = Cranberry	Insp. = Inspection
Cult. = Cultivator	Internat. = International
Cutan. = Cutaneous	Interst. = Interstate
D. A. = Department Agriculture	J., Jr. or Jour. = Journal
Dairym. = Dairyman	L. I. = Long Island
Dept. = Department	Lab. = Laboratory
Dermat. = Dermatology	Lumberm. = Lumberman
Destr. = Destructive	Mag. = Magazine
Dis. = Disease	Man. = Manual
Dom. = Dominion	Med. = Medicine, Medical
Ec. = Economic	Meet. = Meeting
Ecol. = Ecology	Mem. = Memoir
Ed. = Education	Met. = Metallurgical
	Mil. = Military

Mill. = Miller  
 Mod. = Modern  
 Month. = Monthly  
 Mos. = Mosquito  
 Mus. = Museum  
 N. Eng. = New England  
 Nat. = National, Naturalist  
 Northw. = Northwestern  
 Not. = Notices  
 Nurs. = Nursery  
 Off. = Office  
 Ont. = Ontario  
 Orch. = Orchard  
 P. = Proceedings  
 P. B. = Press Bulletin  
 Pac. = Pacific  
 Path. = Pathological  
 Pl. = Plant, Planter  
 Poly. = Polytechnic  
 Pom. = Pomological  
 Pop. = Popular  
 Poult. = Poultry  
 Prai. = Prairie  
 Prevent. = Preventive  
 Proclam. = Proclamation  
 Prod. = Producer  
 Prog. = Progressive  
 Protec. = Protection  
 Pub. = Public, Publication  
 Quar. = Quarterly  
 R. = Report  
 Rec. = Record  
 Res. = Research  
 Rev. = Review  
 Roy. = Royal  
 Rur. = Rural

Ry. = Railway  
 Sci. = Science  
 Sec. = Secretary  
 Serv. = Service  
 Sess. = Session  
 Soc. = Society  
 So. = South  
 South. = Southern  
 Sp. = Special  
 St. = State  
 St. N. = Saint Nicholas  
 Sta. = Station  
 Statis. = Statistical  
 Stockm. = Stockman  
 Succ. = Successful  
 Sup. = Supplement  
 Suppr. = Suppression  
 Supt. = Superintendent  
 Surg. = Surgical  
 Surv. = Survey  
 Syn. = Synopsis  
 Tech. = Technical  
 Tr. or Trans. = Transactions  
 Trop. = Tropical  
 Univ. = University  
 U. S. D. A. B. or USDA = Bulletin U.  
     S. Dept. Agriculture  
 U. S. F. B. or USFB = U. S. Dept. Agr.  
     Farmers' Bulletin  
 U. S. Y. B. = Yearbook U. S. Dept.  
     Agriculture  
 Veg. = Vegetation  
 Vet. = Veterinary  
 West. = Western  
 Wkly. = Weekly  
 Zool. = Zoology



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## INDEX OF LITERATURE, 1925-1929

By MABEL COLCORD

- Ababolia bimaculata*  
 Dodds & Hisaw, Ecology 6, 124, 1925.
- Abagrotis dodi*  
 niMcDunnough, Can. Ent. 59, 199, 1927.
- Abagrotis turbulenta*  
 niMcDunnough, Can. Ent. 59, 198-199, '27.
- Abbott's sphinx*, see *Sphexcodina abbotti*
- Abbott's bag worm*, see *Oiketicus abbottii*
- Abbott's Pine sawfly*, see *Neodiprion pinetum*
- Abia americana*  
 Britton & Zappe, Conn. B. 292, 158, '27.  
 ———Conn. B. 265, 341, 1925.
- Abia inflata*  
 Britton & Zappe, Conn. B. 292, 158, '27.  
 ———Conn. B. 265, 341, 1925.
- Ablerus beenleighi*  
 nGirault, Ins. Insc. Mens. 14, 70, 1926.
- Abracris obliqua*  
 Hebard, Trans. Amer. Ent. Soc. 51, 283, 1925.
- Abrostola mariana*  
 nDyar, Proc. Ent. Soc. Wash. 30, 139, 1928.
- Acalla hastiana*—Losses from  
 Samal, Internat. Cong. Ent. 4, Tr. 2, 414-415, 1929.
- Acalypha flea beetle*, see *Crepidodera atriventris*
- Acalypta*—Synopsis & key—Am. Sp.  
 Drake, Brklyn. Ent. Soc. B. 23, 1-9, '28.
- Acalypta thomsoni*  
 iDrake, Ann. Carnegie Mus. 16, 377, '26.  
 niDrake, Brklyn. Ent. Soc. B. 23, 5-6, '28.
- Acalypta vanduzeei*  
 nDrake, Brklyn. Ent. Soc. B. 23, 8-9, '28.
- Acamatoxenus n. gen., suaris n. sp.*  
 Mann, J. Wash. Acad. Sci. 15, 76, 1925.
- Acanalonia coniceps*  
 Osborn, Porto Rico Dept. Agr. J. 13, 108, 1929.
- Acanthocephala femorata*  
 iWatson, Fla. Dept. Agr. Quar. B. 39; 3, 119, 1929.
- Acanthocheila armigera*  
 Drake, Ann. Carnegie Mus. 16, 377, '26.
- Acanthocnema ruficauda*  
 nCurran, Can. Ent. 61, 133, 1929.
- Acantholyda erythrocephala*  
 Rohwer, J. Wash. Acad. Sci. 17, 173, 1927.
- Acanthoscelides obtectus* (Bean weevil)\*  
 iCaesar, Ont. Dept. Agr. B. 325, 19-20, 1927.  
 Compton, Canning Trade 48; 52, 12, 1925.  
 Compton, Ill. C. 297, 40-41, 1925.  
 iDavis, Ind. Farm Guide 85, 1040, 1929.  
 Essig, J. Econ. Ent. 22: 840, 1929.  
 Essig, J. Ec. Ent. 22, 858-861, 1929.  
 Gibson & Twinn, Can. Dept. Agr. B. 112, 35, 1929.
- iGuyton*, Pa. Dept. Agr. Gen. B. 432, 8-9, 1927.  
 H. A. B., Dairy Farm. 23; 17, 7, 1925.  
 Howard, USDA Ent. R. f. 1925, 13-14.  
 Mackie, Calif. Fruit News, 75; 2030, 15, 1927.  
 Pettit, Mich. Sp. B. 183, 38-39, 1929.
- Acanthucus flavidorsus*  
 nGoding, J. N. Y. Ent. Soc. 34, 244, 1926.
- Acarapis woodi*  
 Anderson, J. Ec. Ent. 21, 406, 1928.
- Acarina*—Ohio  
 Miller, Ohio B. 386, 85-172, 1925.
- Acarus*—Andrew Crosse's  
 Weiss, Ent. News 38, 111, 1927.
- Acalyphus*—gen. spp.  
 Malloch, P.U.S.N.M. 74: 6, 4-5, '29.
- Acerastes*—n. gen., *A. pertinax*  
 nCushman, P.U.S.N.M. 74; 16, 53-54, '29.
- Aceratogallia sanguinolenta*—Curly top  
 Fawcett, Phytopathology 17, 407-411, 1927.

- Acerentulus californicus*  
niHilton, J. Ent. & Zool. 21, 131-132, '29.
- Acerophagus notativentris*—Parasites  
iTimberlake & Clausen, Cal. Univ. Tech. B. Ent., 3; 2, 271-274, 1924.
- Acerophagus nubilipennis*  
nDozier, Proc. Ent. Soc. Wash, 28, 101-102, 1926.
- Acerota leonardi*  
nFouts, Proc. Ent. Soc. Wash. 27, 147, '25.
- Acetropis americana*  
nKnight, Ent. News 38, 206-207, 1927.
- Achaetoneura* spp.  
Allen, Trans. Amer. Ent. Soc. 52, 187-198, 1926.
- Achatodes* spp.—Parasites  
bBalduf, Ohio J. Sci. 29, 218-241, 1929.
- Achatodes zeae*—(Spindle worm)  
ibBalduf, Proc. Ent. Soc. Wash. 37, 169-177, 1929.
- Drake & Decker, Iowa C. 103, 8, 1927.  
Ellis, J. Agr. Res. 30, 791, 1925.  
iPettit, Mich. Ent. R. f. 1927, 8-9, 1927.  
iPettit, Mich. Bd. Agr. R. 66, 344-345, '28.
- \**Achemon sphinx*, see *Pholus achemon*
- Achipteria oudemansi*  
nJacot, Psyche 35, 215, 1928.
- Achorutes armatus*  
iPopenoe, USFB 789, rev. Jl. 1925, 4-5.  
Thomas, Ent. News, 40, 224, 1929.
- Achorutes (Schöttella) caecus*  
nibFolsom, P.U.S.N.M. 72: 6, 4-5, 1927.
- Achorutes socialis*  
iMacNamara, Nat. Mag. 6, 350, 1925.
- Achroia grisella*—In beehives  
——Cal. C. 297, 13, 1925.
- Achrysopophagus gahani*  
niDozier, Porto Rico Dept. Agr. J. 10: 3 & 4, 270-271, 1926.
- Achrysopophagus modestus*  
niTimberlake, Cal Univ. Tech. B. Ent. 3; 2, 240-243, 284-286, 1924.
- Achrysopophagus seini*  
niDozier, Porto Rico Dept. Agr. J. 10: 3 & 4, 269-270, 1926.
- Achurum sumichrasti*  
Hubbell, Fla. Ent. 9, 43, 1925.
- Acicephala alberta, intermedia*  
nCurran, Can. Ent. 59, 259-260, 1927.
- Acidalia* spp.  
Barnes & Benjamin, Pan-Pac. Ent. 4, 17, 89, 135, 1927.
- Acidopria columbiana*  
Fouts, Proc. Ent. Soc. Wash. 29, 167, '27.
- Acinopterus*—Key & spp.  
niLawson, Ann. Ent. Soc. Amer. 20, 232-239, 1927.
- Acinopterus aridellus*—So. California  
nOsborn, Pan-Pac. Ent. 2, 22, 1925.
- Acinopterus arizonanus* 234, *bakeri* 238-239, *balli*, 236, *catalinanus* 327, *doeringi* 235-236, *elongatus* 238-239, *inflatus* 235, *lactus* 233-234, *latus* 237-238, *parvalus* 237, *productus* 235, *pruinosis* 235, *pulchellus* 234, *rileyi* 238.  
niLawson, Ann. Ent. Soc. Amer. 20, 1927.
- Acla*  
nHebard, Trans. Amer. Ent. Soc. 54, 91-93, 1928.
- Aclerda* spp.  
iTeague, Ann. Ent. Soc. Amer. 18, 435-440, 1925.
- Aclista* spp.—Key  
Fouts, Brklyn. Ent. Soc. B. 21, 145-149, 1926.
- Acmaegenius granicollis*  
nVan Dyke, Pan-Pac. Ent. 4, 14-15, '27.
- Acmaeodera cuprina, kaupii*  
Van Dyke, Pan-Pac. Ent. 4, 94, 95, '27.
- Acmaeodera flavinigrapunctata, hulli*  
nKnull, Ent. News 39, 314-316, 1928.
- Acmaeodera purshiae*  
nFisher, Ent. News, 37, 114-115, 1926.
- Acmaeodera* spp.—Key  
Fisher, P.U.S.N.M. 65; Art. 9, 29-45, '27.
- Acoloides floridensis*  
nFouts, Proc. Ent. Soc. Wash. 29, 179, '27.
- Acolpocephalum*—Genus, *brevipes*  
nEwing, J. Wash. Acad. Sci. 17, 88, '27.
- Acoma arizonica*  
nBrown, Can. Ent. 61: 212-213, 1929.
- Acompocoris feratis*  
nDrake & Harris, Proc. Biol. Soc. Wash. 39, 41, 1926.
- Aconophora projecta*  
nFunkhouser, J. N. Y. Ent. Soc. 35, 160, 1927.

- Acoptus suturalis*  
Champlain & Knoll, Can. Ent. 57, 114, 1925.
- Acossus generosa*  
nDyar, Ins. Insc. Mens. 13, 18, 1925.
- Acraga canaquitam*  
nDyar, Ins. Insc. Mens. 13, 18, 1925.
- Acraga perbrunnea*  
nDyar, J. Wash. Acad. Sci. 17, 550, 1927.
- Acraspis insolens, patelloides*  
nWeld, P.U.S.N.M. 68; 10, 59-61, 1926.
- Acrepidopterus, n. gen, minutum*  
nFisher, P.U.S.N.M. 68; 22, 6-7, 1926.
- Acrididae—Attraction to light*  
Rockwood, Pan-Pac. Ent. 2, 36-38, 1925.
- Acrididae—Costa Rica*  
iRehn, Tr. Amer. Ent. Soc. 55, 9-77, '29.
- Acrididae—Texas*  
Little, Ent. News 37, 316-319, 1926.
- Acrididae—U. S. S. R. Control*  
Parfentjev, Internat. Cong. Ent. 4, Tr. 2, 848-856, 1929.
- Acridinae—North American*  
Hebard, Tr. Amer. Ent. Soc. 52, 47-59, '26.
- Acrobasis caryae, (Pecan nut case bearer)*  
Baerg, Ark. Pecan. Gr. Assoc. Proc. 3, 19, 1929.  
liBilsing, Tex. B. 328, 1926, 77 p.  
Bilsing, Tex. Pecan Gr. Assoc. Proc. 6, 27-28, 1926.  
ibBilsing, Tex. B. 347, Apr. 1927, 71 p.  
Bratley, Nat. Pecan Gr. Assoc. Proc. 24, 69, 1927.  
Burgess, Country Gentl. 91, 135, 1926.  
Butterfield, Amer. Nut. J. 21, 78, 1924.  
Chase, Amer. Nut. J. 20; 2, 27, 1924.  
Cory, Northern Nut Grow. Assoc. Ann. meeting 18, 46, 1927.  
Fleury, Cal. Dept. Agr. Mo. B. 17, 401-402, 1928.
- ibGill, U. S. D. A. B. 1303, 1925, 12p.  
Halbert, Farm & Ranch, 45; 24, 8, 1926.  
ilLeiby, N. C. Dept. Agr. B. Feb. 1925, 24-27.  
Moznette, Ga. Fla. Pecan Grow. Assoc. Proc. 21, 1927, 39-42.  
iMoznette, Nat'l Pecan Exch. News, 6: 1-2, 5-13, 1929.  
Watson, Fla. R. f. 1927, 48R-49-R, 1927.
- Williams, Ga. Ent. B. 68, 5-6, 1925.  
Witherington, Nat. Nut News, 3: 8, 44-45, 1929.  
Woodward, Amer. Nut. J. 21: 3; 47, '24.  
liWoodward, Texas Dept. Agr. B. 81, 165-168, 1925.  
ilWoodward, et al., Tex. Dept. Agr. B. 95, 136-139, 1929.
- Acrobasis caryivorella*  
Bilsing, J. Ec. Ent. 18, 202-206, 1925.  
iBilsing, Nat. Pecan Gr. Assoc. Proc. 24, 62-65, 1925.
- Acrobasis cunulae*  
iDyar & Heinrich, Proc. Ent. Soc. Wash. 31, 37, 1929.
- Acrobasis hebescella† see Acrobasis caryae*  
Baerg, Ark. Pecan Grow. Assoc. Proc. 3, 21, 1929.  
Bratley, Nat. Pecan Grow. Assoc. Proc. 24, 65-66, 1925.  
Fleury, Cal. Dept. Agr. Mo. B. 17, 401-402, 1928.  
iLeiby, N. C. Dept. Agr. B. Feb. 1925, 4-12.  
Ryan, Los Angeles Co. Hort. R., 1924-25, 12, 1925.
- Acrobasis palliolella*  
Moznette, J. Econ. Ent. 22: 781-782, 1929.
- Acrobasis peplifera, septentrionella*  
nDyar, Ins. Insc. Mens. 13, 13, 1925.
- Acrobasis sp. (Brown tunnel worm)*  
Leiby, N. C. Dept. Agr. B. Feb. 1925, 35-36.
- Acrocercops arbutella*  
nBraun, Can. Ent. 57, 149, 1925.
- Acrocercops strigifinitella*  
iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 124-126.
- Acrolepia reticulosa*  
nBraun, Trans. Amer. Ent. Soc. 53, 193-194, 1927.
- Acrolyta empretiae*  
bMuesebeck & Dohanian, U. S. D. A. B. 1487, 15, 1927.

†"There are a number of different species which appear in literature under the erroneous determination *Acrobasis hebescella*," Heinrich & Middleton, July 16, 1930.

- Acroneuria pacifica**  
 Muttkowski, N. Y. St. Col. Forestry  
 B. 2, 190-195, 1929.  
 iNeedham & Christensen, Utah B. 201,  
 18, 1927.
- Acroneuria spp.**  
 iNeedham, Amer. Game, 18, 77-78, '29.
- Acronycta americana (American dagger moth)\***  
 i deGryse, Can. Dept. Agr. Ent. Br.  
 Pam. 47, n.s., rev. ed., 9-10, 1925.
- Acronycta lanceolaria**  
 Lemmer, J. N. Y. Ent. Soc. 33, 181, '25.
- Acronycta lepusculina**  
 deGryse, Can. Dept. Agr. Ent. Br. Pam.  
 47, n.s., rev. ed., 9-10, 1925.
- Acronyctinae**  
 Bird, J. N. Y. Ent. Soc. 35, 179-182, '27.
- Acrosoma rugosa**  
 Weese, Ill. Biol. Mon. 9; 4, 19, 1924.
- Acrosternum hilaris (Green stink bug)\***  
 iPorter, Chandler & Sazama, Ill. Nat.  
 Hist. Surv. B, 17, 270, 1928.  
 iSchoene, Va. St. Crop Pest Com.,  
 Quar. B. 7; 4, 25-27, 1926.
- Acrydium acadicum**  
 Buckell, Proc. Ent. Soc. B. C. 25; 10-  
 11, 1928.
- Acrydium brunneri**  
 Hubbell, Fla. Ent. 9, 42, 1925.
- Acrydium granulatatum**  
 Buckell, Pr. Ent. Soc. B.C. 25; 10, '28.
- Actenodes arizonica**  
 nKnull, Ent. News, 38, 115-116, 1927.
- Actenodes manni**  
 nFisher, P.U.S.N.M. 66; 31, 8-10, 1925.
- Actenodes spp.—Key**  
 Fisher, P.U.S.N.M. 65; 9, 84, 1925.
- Actenophthalmus, n. gen.**  
 Fox, Ent. News 36, 121, 1925.
- Actia nigripes, varichaeta**  
 nCurran, Amer. Mus. Nov. 258, 6-7, '27.
- Actias dubernandi**  
 Eisenhardt, Bklyn. Ent. Soc. B. 24,  
 192, 1929.
- Actina viridis—Synonymy**  
 Johnson, Psyche 33, 88-90, 1926.
- Actinotrips bondari**  
 niHood, Brklyn. Ent. Soc. B. 23, 147-150, '28.
- Acyclania schadei**  
 nSchaus, Proc. Ent. Soc. Wash. 29, 76, '27.
- Acysta hubbelli**  
 niDrake, Mich. Univ. Mus. Zool. Occ.  
 Papers, 190, 2-4, 1928.
- Adalia bipunctata (Two-spotted lady-beetle)\***  
 iBrittain, N. S. Dept. Nat. Resource  
 B. 12, 93, 1927.  
 Gibson & Twinn, Can. Dept. Agr. B.  
 112, 66-67, 1929.  
 nPark, J. N. Y. Ent. Soc. 37, 429-430,  
 1929.
- Adapsilia flaviseta**  
 nAldrich, P.U.S.N.M. 74; 8, 2-3, 1928.
- Adela ridingsella (?)**  
 iWeiss & West, Ent. News 36, 116-118,  
 1925.
- Adelges abietis (Spruce gall aphid)**  
 iBritton & Zappe, Conn. B. 292, 165-  
 166, 1927.  
 Annand, Stanford Univ. Pub. Biol. Sci.  
 6; 11, 54-58, 1928.  
 Friend, Conn. B. 285, 223-228, 1927.  
 Friend, Proc. Nat'l Shade Tree Conf.  
 5, 65-66, 1929.
- biHerrick & Tanaka, N. Y. C. B. 454,**  
 1926. 17 p.
- ilMcDaniel, Mich. Ext. B. 76, 1-5, 1929.**
- iPeirson, Me. For. Serv. B. 5, 117-118,**  
 1927.
- Pettit, Mich. St. Bd. Agr. R. 66, 353,**  
 1928.
- Adelges aenigmaticus**  
 nAnnand, Stanford Univ. Pubs. Biol.  
 Sc. 6; 1, 73, 1928.
- Adelges cooleyi (Long spruce cone gall)**  
 Annand, Stanford Univ. Pub. Biol. Sci.  
 6; 1, 37-54, 1928.
- Adelges diversus**  
 nAnnand, Stanford Univ. Pub. Biol.  
 Sci. 6; 1, 69-72, 1928.
- Adelges lariciatus, nüsslini**  
 iAnnand, Stanford Univ. Pub. Biol. Sci.  
 6; 1, 58-60, 81-89, 1928.
- Adelges oregonensis**  
 niAnnand, Stanford Univ. Pub. Biol. Sci.  
 6; 1, 67-69, 1928.
- Adelges piceae**  
 iAnnand, Stanford Univ. Pub. Biol. Sci.  
 6; 1, 74-81, 1928.

- Adelges (Chermes) pinicorticis (Pine bark aphid)**  
iBritton & Zappe, Conn. B. 292, 166, 1927.
- ilhMcDaniel, Mich. Ext. B. 76: 6-8, 1929.
- Adelges similis**  
ilhMcDaniel, Mich. Ext. B. 76, 5-6, 1929.
- Adelges strobilobius**  
Britton & Zappe, Conn. B. 292, 166, 1927.  
Annand, Stanford Univ. Pub. Biol. Sci. 6: 1, 60-66, 1928.
- Adelges tsugae**  
Annand, Stanford Univ. Pub. Biol. Sci. 6: 1, 89-93, 1928.
- Adelginae**  
Annand, Stanford Univ. Pub. Biol. Sci. 6: 1, 1928, 146 p.
- Adelocephala bellardi**  
nSchaus, Proc. Ent. Soc. Wash. 30, 58, '28.
- Adelocephala colloida**  
nDyar, Ins. Insc. Mens. 13, 1, 1925.
- Adelocephala kuschei**  
Dyar, Ins. Insc. Mens. 13, 1, 1925.
- Adelocephala phaedima**  
Dyar, Ins. Insc. Mens. 13, 1, 1925.
- Adelocephala roreræ**  
nSchaus, Proc. Ent. Soc. Wash. 30, 58, '28.
- Adelocephala surrotunda**  
nDyar, Ins. Insc. Mens. 13, 2, 1925.
- Adelopsyche n. gen., frustrans**  
niCockerell, Psyche 33; 1, 16-17, 1926.
- Adelotopus spp.—Key**  
Notman, P.U.S.N.M. 67; 14, 6-10, 1925.
- Adelphocoris rapidus (Cotton plant bug)**  
Hamner, Miss. C. 86, 1929, 4 p.  
Isely, Ark. Ext. C. 231, 1927, 8 p.  
Pettit, Mich. Sp. B. 183, 42-43, 1929.
- Adiaphorothrips amplus**  
nHood, Can. Ent. 57, 221-222, 1925.
- Adita chionanthi**  
McDunnough, Can. Ent. 59, 64, 1927.
- Admontia dubia, pollinosa, rufochaeta**  
nCurran, Can. Ent. 59, 296-297, 1927.
- Adoratopsylla n. gen., bisetosa**  
nEwing, J. Parasitol. 12, 44-45, 1925.
- Adoxosia nydiana**  
niSchaus, Wash. Ent. Soc. Proc. 31, 46, 1929.
- Adraneothrips huachucae**  
nHood, Proc. Biol. Soc. Wash. 40, 202-203, 1927.
- Adraneothrips spp.**  
nHood, Psyche 32, 55-56, 1925.
- Aedeomyia squamipennis**  
Dunn, Amer. Jr. Trop. Med. 9, 499, 1929.
- Aedes aboriginis**  
Hearle, Nat. Res. Council Canada, R. 17, 51-52, 1926.
- Aedes aegyptii, see Aedes argenteus**
- Aedes africanus**  
bPhilip, Amer. J. Trop. Med. 9, 268, 1929.
- Aedes aldrichi**  
Hearle, Nat. Res. Council Canada R. 17, 35, 1926.
- Aedes aloponotum**  
Hearle, Nat. Res. Council, Canada R. 17, 55-56, 1926.
- Aedes alpinus**  
Dyar & Shannon, J. Wash. Acad. Sci. 15, 78, 1925.  
biTwinn, Can. Ent. 59, 47, 1927.
- Aedes (Skusea) amesii**  
Dyar & Shannon, Ins. Insc. Mens. 13, 78, 1925.
- Aedes (Aedimorphus) apicoannulatus**  
Bauer, Amer. Jour. Trop. Med. 8, 266-268, 1928.
- Aedes (Stegomyia) apicoargenteus**  
Bauer, Am. J. Trop. Med. 8, 268-271, 1928.
- Aedes argenteus (Yellow fever mosquito)\***  
Barber, U. S. Pub. H. R. 43, 13, 1928.  
ibBauer and Hudson, J. Expt. Med. 48, 147-153, 1928.  
Chandler, Animal Parasites, Ed. 3, 69-73, 1925.  
Dowling, La. St. Bd. Health Quar. B. 19: 1, 2, 1928.  
iDunn, Amer. Jour. Trop. Med. 6: 181-193, 1926.  
iDunn & Hanson, Amer. J. Trop. Med. 5, 401-418, 1925.  
iFernald, Applied Ent. ed. 2, 312-314, '26.  
Griffiths, So. Med. J. 21, 767-769, 1928.  
iHoward, U. S. F. B. 1354, 1928, 13 p.



***Aedes argenteus* Cont'd**

- bKligler, Amer. Jour. Trop. Med. 8, 283-298, 1928.  
 Lutz, Nat. Hist., N. Y., 26, 134, 1926.  
 bPhilp, Am. J. Trop. Med. 9, 267-269, 1929.  
 iSchule, Am. J. Trop. Med. 8, 203-213, 1928.  
 ibSellards and Silver, Amer. Jour. Trop. Med. 8, 299-304, 1928.  
 Science Supp. 68: 1752, xii, 1928.
- Aedes argenteus*—Breeding places**  
 Carter, Internat. Confer. Health Problems Trop. Amer. Pr. 1, 228-240, '24.
- Aedes argenteus*—Egg laying**  
 Huff, Biol. Bul. 56, 347, 1929.
- Aedes argenteus* and dengue**  
 Chandler, Animal Parasites, Ed. 3, 183, 1925.  
 bMcKinley, P. R. Rev. Pub. Health 4: 11, 562-566, 1929.  
 Schule, Am. J. Trop. Med. 8: 203-213, 1928.  
 Siler, Hall & Hitchens, Military Surg. 58; 1, 57-60, 1926.  
 Siler, Hall & Hitchens, Dengue, 62-167, 1926.  
 Am. J. Pub. Health 16, 717-718, 1926.  
 Amer. Med. Assoc. J. 86, 418, 1926.  
 Pub. Health R. 44, 2106-7, 1929.
- Aedes argenteus* and disease**  
 bBauer & Hudson, J. Exp. Med. 48, 147-153, 1928.  
 Chandler, Animal parasites Ed. 3, 443-448, 1925.  
 Dunn, Amer. J. Hyg. 6, July Sup. 1-18, 1925.  
 Dunn, Amer. Jr. Trop. Med. 9, 495, '29.  
 Felt, N. Y. St. Mus. B. 274, 29, 1928.  
 Hanson, Amer. J. Trop. Med. 5, 393-400, 1925.  
 Kendall Hygeia 3, 223-225, 1925.  
 McKinley, Philippine J. Sci. 39, 175, '29.  
 bMcKinley, P. R. Rev. Pub. Health 4: 11, 567-574, 1929.  
 Sawyer & Frobisher, J. Exp. Med. 50, 713-718, 1929.  
 Stokes, Bauer & Hudson, Am. J. Trop. Med. 8, 103-164, 1928,
- iVincent, Rockefeller Found. Rev. 1925; 18, 13-19, 1926.
- Aedes* (Howardina) argyrites**  
 nDyar, and Tovar, Ins. Insc. Mens. 14, 190, 1927.
- Aedes calopus*, see *Aedes argenteus***
- Aedes camposanus***  
 Dyar, Ins. Insc. Mens. 13, 29, 1925.
- Aedes canadensis***  
 Hearle, Nat. Res. Council Canada R. 17, 53, 1926.
- Aedes cantator***  
 Dyar & Shannon, J. Wash. Acad. Sci. 15, 77, 1925.
- Aedes cataphylla***  
 Dyar, P. U. S. N. M. 75: 23; 4, 1929.  
 iFreeborn, Cal. Univ. Tech. B. Ent. 3: 388-391, 1926.  
 Hearle, Nat. Res. Council Canada R. 17, 55, 1926.
- Aedes cinereus***  
 iFreeborn, Cal. Univ. Tech. B. Ent. 3: 406-410, 1926.  
 Hearle, Nat. Res. Council Canada, R. 17, 41, 1926.
- Aedes communis***  
 iFreeborn, Cal. Univ. Tech. B. Ent. 3: 382-388, 1926.  
 Merrill, Cal. R. f. 1927-28, 74, 1929.
- Aedes dorsalis***  
 Dyar, P. U. S. N. M. 75: 23, 6-7, 1929.  
 Freeborn, Cal. Univ. Tech. B. Ent. 3: 368-374, 1926.  
 Hearle, Nat. Res. Council Canada, R. 17, 58-59, 1926.  
 Stuart & Stover, Am. J. Pub. Health, 17, 705-706, 1927.
- Aedes* (*Aedes*) *dux***  
 nDyar & Shannon, Ins. Insc. Mens. 13, 81-82, 1925.
- Aedes* (*Ochlerotatus*) *fitchi***  
 iFreeborn, Cal. Univ. Tech. B. Ent. 3: 399-402, 1926.
- Aedes flavescens***  
 Hearle, Nat. Res. Council Canada R. 17, 56, 1926.  
 bHearle, Roy. Soc. Canada Tr. 3, ser. 5, sec. 23, 85-102, 1929.

**Aedes (Ochlerotatus) hexodontus**

iFreeborn, Cal. Univ. Tech. B. Ent. 3:  
375-378, 1926.

Merrill, Cal. R. f. 1927-28, 74, 1929.

**Aedes hirsuta**

Gibson, Ottawa District Mos. Control  
Com. R. f. 1929, 11.

**Aedes hirsuteron**

Twinn, Can. Ent. 58, 110, 1926.

Twinn, Ont. Ent. Soc. R. 57, 14-15,  
1927.

**Aedes (Ochlerotatus) impiger**

iFreeborn, Cal. Univ. Tech. B. Ent. 3:  
392-395, 1926.

**Aedes increpitus**

Dyar, P. U. S. N. M. 75: 23, 6, 1929.

iFreeborn, Cal. Univ. Tech. B. Ent. 3:  
395-399, 1926.

**Aedes labradorensis**

nDyar & Shannon, J. Wash. Acad. Sci.  
15, 78, 1925.

**Aedes lazarensis**

Hearle, Nat. Res. Council Canada R.  
17, 52-53, 1926.

**Aedes (Finlaya) longipalpis**

Bauer, Am. J. Trop. Med. 8, 271, 1928.

**Aedes (Stegomyia) luteocephalus**

Bauer, Amer. Jour. Trop. Med. 8, 263-  
266, 1928.

**Aedes (Aedes) macrodixoa, margarsen**

nDyar & Shannon, Ins. Insc. Mens. 13,  
79-81, 1925.

**Aedes melanimon**

Dyar, Ins. Insc. Mens. 14, 179, 1927.

**Aedes meteocopus**

nDyar, Ins. Insc. Mens. 13, 30, 1925.

**Aedes (Skusea) miachaetessa**

nDyar & Shannon, Ins. Insc. Mens. 13,  
78, 1925.

**Aedes mutatus**

Hearle, Nat. Res. Council Canada R.  
17, 59-60, 1926.

**Aedes nearcticus**

Dyar, P. U. S. N. M. 75: 23, 4, 1929.

Hearle, Can. Ent. 59, 61-66, 1927.

**Aedes nigromaculis**

Dyar, P. U. S. N. M. 75: 23; 7, 1929.

**Aedes (Aedes) nigrotarsis, ostentatio**

Dyar & Shannon, Ins. Insc. Mens. 13,  
78-80, 1925.

**Aedes pacificensis**

nHearle, Can. Ent. 59, 101-103, 1927.

**Aedes pearyi**

nDyar & Shannon, J. Wash. Acad. Sci.  
15, 78, 1925.

**Aedes pullatus**

Dyar, P. U. S. N. M. 75: 23, 5, 1929.

**Aedes (Aedimorphus) punctifemora**

Dyar, Ins. Insc. Mens. 13, 217, 1925.

**Aedes punctor**

Hearle, Nat. Res. Council Canada R.  
17, 50-51, 1926.

**Aedes schizopinax**

nDyar, P. U. S. N. M. 75: 23, 1-2, 1929.

**Aedes scutellaris**

Chandler, Animal Parasites, Ed. 3, 183,  
1925.

Huff, Biol. B. 56, 347-348, 1929.

**Aedes (Howardina) septemstriatus**

Dyar, Ins. Insc. Mens. 14, 112-113, '26.

**Aedes simpsoni**

Philip, Amer. J. Trop. Med. 9: 268,  
1929.

**Aedes sollicitans (Banded salt-marsh  
mosquito)**

iBayer, La. St. Bd. Health, Quar. B.  
16: 3, 148-157, 1925.

iFelt, N. Y. St. Mus. B. 274, 30, 1928.

Griffiths, N. J. Mos. Exterm. Assoc.  
Proc. 15, 87-91, 1928.

iReiley, Atlantic Co. Mos. Exterm.  
Comm. R. 15, 17-28, 1927.

iAtlantic Co. Mos. Ext. Com. R. 14,  
16, 1926.

**Aedes spp.**

Bauer, Am. J. Trop. Med. 8, 261-282,  
1928.

Dyar, Insec. Ins. Mens. 13, 140, 1925.

Freeborn, Cal. Univ. Tech. B. Ent. 3:  
365-366, 1926.

Philip, Am. J. Trop. Med. 9, 259-261,  
1929.

Twinn, Quebec, Soc. Protec. Pl. R. 18,  
84-89, 1926.

**Aedes spenceri**

Parker & Mabee, Mont. B. 216, 11-13,  
1928.

**Aedes squamiger**

iFreeborn, Cal. Univ. Tech. B. Ent. 3:  
403-406, 1926.

- Aedes squamiger* *Cont'd*  
Stuart & Stover, Am. J. Pub. Health,  
17: 7, 704-707, 1927.
- Aedes stimulans*  
Twinn, Can. Ent. 58, 109-110, 1926.
- Aedes taeniorhynchus*  
Chamberlain, Pan. Canal Health Dept.  
R. f. 1926, 2.  
Dunn, Amer. Jr. Trop. Med. 9, 496, '29.  
Freeborn, Cal. Univ. Tech. B. Ent. 3:  
414-416, 1926.  
Moznette, Fla. St. Pl. Bd. Quar. B. 11:  
1, 9, 1926.
- Aedes thibaulti*—Larva  
Bradley, Ins. Insc. Mens. 13, 89-91, '25.
- Aedes traversus*  
nDyar, Ins. Insc. Mens. 13, 215-216, '25.
- Aedes trichurus*  
Dyar, P.U.S.N.M. 75: 23, 5, 1929.
- Aedes varipalpus*  
iFreeborn, Cal. Univ. Tech. B. Ent. 3:  
416-420, 1926.  
Hearle, Nat. Res. Council Canada R.  
17, 53-54, 1926.
- Aedes (Ochlerotatus) ventrovittis*  
iFreeborn, Cal. Univ. Tech. B. Ent. 3:  
378-382, 1926.
- Aedes (Aedimorphus) vexans* (Rainpool  
mosquito)  
iFreeborn, Cal. Univ. Tech. B. Ent. 3:  
410-413, 1926.  
Gibson, Ottawa Dist. Mos. Control  
Comm. R. f. 1929, 12.  
Hearle, Nat. Res. Council Canada, R.  
17, 28, 1926.  
Twinn, Ont. Ent. Soc. R. 57, 16, 1927.
- Aedes vittatus*  
bPhilip, Amer. J. Trop. Med. 9, 267-  
269, 1929.
- Aedes (Finlaya) welmani*  
Bauer, Amer. Jour. Trop. Med. 8, 271-  
273, 1928.
- Aedimorphus subgen.*  
Freeborn, Cal. Univ. Tech. B. Ent. 3:  
409-410, 1926.
- Aegeria acerni* (Maple borer)  
Peirson, Me. For. Serv. B. 5, 88, 1927.  
Swaine & Hutchings, Can. Dept. Agr.  
Ent. B. 28, 44, 1926.
- Aegeria acerrubri*  
Engelhardt, Brklyn. Ent. Soc. B. 20,  
64, 1925.
- Aegeria albociliata*  
nEngelhardt, Brklyn. Ent. Soc. B. 20,  
67, 215-216, 1925.
- Aegeria americana*  
iThompson, Oreg. St. Hort. Soc. Bien.  
Rept. 19, 132, 1927.
- Aegeria auritincta*  
nEngelhardt, Brklyn. Ent. Soc. B. 20,  
68, 1925.  
nEngelhardt, Brklyn. Ent. Soc. B. 20,  
216-217, 1925.
- Aegeria bibionipennis*—Oregon  
bMote, et al, J. Ec. Ent. 22, 936-943, '29.
- Aegeria exitiosa* (Peach borer)\*  
Abell, Utah B. 202, 19, 1927.  
Anderson, Ann. R. Mich. St. Hort. Soc.  
56, 221-223, 1926.  
Brannon, N. C. Ext. C. 153, 9-10, 1925.  
iBritton and Zappe, Conn. B. 292, 132-  
133, 1927.  
Brunson, Clem. Col., S. C. Wkly. News  
Notes 17: 11, 1928.  
iChamplain, Nat. Mag. 10, 93-94, 1927.  
iChandler, Ill. St. Acad. Sci. Tr. 19,  
191-194, 1926.  
Davis, Hoosier Hort. 7, 158-159, 1925.  
Davis, Hoosier Hort. 11, 79-80, 1929.  
Essig, Cal. B. 411, 11, 1926.  
Fernald, Applied Ent. Ed. 2, 246-247,  
1926.  
Flint, Amer. Fruit Gr. 46: 9, 21, 1926.  
iGuyton & Stear, Pa. Dept. Agr. Gen.  
B. 418, 1-10, 1925.  
Hawley, Utah B. 192, 43, 1925.  
Hinds, La. Ext. C. 93, 1925, 4 p.  
Hoerner, Md. B. 310, 462, 1929.  
Jones, Colo. Ext. News Notes 818,  
1925.  
iLaughlin, Better Fruit 21: 3, 8, 1926.  
Magill & Olney, Ky. C. 159 rev., 1926,  
6 p.  
Morrow, Md. Farm., 13; 21, 13, 1929.  
Mote, Oreg. Grange B. 13; 6, 13, 1929.  
Parrot, Proc. N. Y. Hort. Soc. 72, 6,  
1927.  
iNiven, Prog. Farm. 44, (887M), 1929.  
Parks, Ohio Ext. B. 20: 3, 1-8, 1924-25.

- ilhPepper, S. C., Clemson Col. Ext. C. 81, 1926, 8 p.  
 Pepper, Clemson Col. S. C. Weekly News Notes 15; 1, 1, 1926.  
 Porter, Hoosier Hort. 7, 19-21, 143-144, 1925.  
 Porter, Ind. Hort. Soc. Tr. 64, 55-56, 1925.  
 Rapp, Country Gentlem. 92; 9, 128, '27.  
 Sherman, N. C. R. 47, 76, 1925.  
 Siegler and Brown, J. Ec. Ent. 20, 701-702, 1927.  
 Siegler and Brown, J. Ec. Ent. 22, 217-221, 1929.  
 iSnapp, Amer. Fr. Gr. 48: 8, 5, 1928.  
 Symons, Univ. Md. Ext. Serv. R. 10, 122, 1925.  
 iVan Meter, Flower Grow. 12, 315, '25.  
 Woolsey, Farm & Ranch. 45; 41, 29, '26.  
**Aegeria exitosa**—Paradichlorobenzene  
 McHatton, Country Gentlem. 93; 10, 66, 1928.  
 iSnapp, USFB 1557, 8-15, 1928.  
 iSnapp, USDA Tech. B. 58, 1928, 39 p.  
 Snapp & Alden, Fruit Belt 21; 8, 5-6, '23.  
 Watson, South. Flor. 28; 6, 10, 1929.  
**Aegeria graefi**  
 iThompson, Oreg. St. Bd. Hort. Bien. R. 19, 135, 1927.  
**Aegeria novaroensis**  
 iThompson, Oreg. St. Hort. Soc. Bien. Rept. 19, 131-132, 1927.  
**Aegeria opalescens** (Western peach borer)\*  
 Ballard, C. Gentl. 92; 7, 193, 1927.  
 nBartel, Oreg. Farm. 49, 51, 1929.  
 Essig, Ins. of West. No. Amer. 1926, 722-724.  
 Jardine, Oreg. Bien. R. f. 1926-28, 108.  
 Mote, Better Fruit 23: 2, 9, 1928.  
 Niven, Prog. Farm & Farm. Woman 44, 881T, 1929.  
 Ryan, Calif. Dept. Agr. Mo. B. 18: 1; 66-67, 1929.  
 Thompson, J. Ec. Ent. 19, 779-780, '26.  
 iThompson, Oreg. St. Hort. Soc. Bien. Rept. 19, 133-134, 1927.  
 Thompson, Pan. Pac. Ent. 5, 117, 1929.  
**Aegeria pictipes** (Lesser peach borer)\*  
 Adams, S. Dak. R. 41, 17-18, 1929.  
 Gilbertson, Succ. Farm. 27; 9, 66, 1929.  
 Peirson, Me. For. Serv. B. 5, 51, 1927.  
 Severin, S. D. R. f. 1926, 21-22.  
 iSnapp, USFB 1557, 29-31, 1928.  
 Wilson, S. D. R. 1926-1927, 15-18, 1927.  
 S. Dak. Ann. R. f. 1928, 17-18.  
**Aegeria resplendens** (Sycamore borer)  
 Ryan, Calif. Dept. Agr. Mo. B. 17, 624, 1928.  
**Aegeria rhododendri**  
 iBritton & Zappe, Conn. B. 292, 165, '27.  
**Aegeria rutilans** (Strawberry crown moth)\*  
 Jardine, Oreg. Bienn. Rept. 1924-1926, 101, 1926.  
 iThompson, Oreg. St. Hort. Soc. Bien. Rept. 19, 129-130, 1927.  
**Aegeria scitula**  
 iLeiby, N. C. Dept. Agr. B. Feb. 1925, 50-52.  
**Aegeria tacoma**  
 iThompson, Oreg. St. Bd. Hort. Bien. R. 19, 131, 1927.  
**Aegeria tibialis**  
 iThompson, Oreg. St. Hort. Soc. Bien. Rept. 19, 128-129, 1927.  
**Aegeria tipuliformis** (Currant borer)\*  
 iBrittain, N. S. Dept. Nat. Resource B. 12, 60-61, 1927.  
 iBritton & Zappe, Conn. B. 292, 134, '27.  
 iCaesar, Ont. Dept. Agr. B. 318, 21, '26.  
 Darrow, U.S.F.B. 1398 rev. Sept. '29, 16.  
 Sears, Productive Small Fruit Culture, ed. 2, 259, 1925.  
 iThompson, Ore. St. Hort. Soc. Bien. Rept. 19, 130-131, 1927.  
 Van Meter, Flower Grow. 12, 184, 1925.  
**Aegeria viburni**  
 nEngelhardt, Brklyn Ent. Soc. B. 20, 65, 1925.  
**Aegeriidae**  
 Busck, Proc. Ent. Soc. Wash. 31: 134-137, 1929.  
 Engelhardt, Brklyn. Ent. Soc. B. 20, 61, 153-158, 215-217, 1925.  
 Thompson, Oreg. St. Bd. Hort. Bien. R. 19, 125-141, 1927.  
 Engelhardt, Brklyn. Ent. Soc. B. 23, 67-68, 1928.

- Aegerina vignae*  
nBusck, Proc. Ent. Soc. Wash: 31: 134-135, 1929.
- Aegerita webberi*  
Berger, Fla. B. 183, 349, 1927.
- Aegialia arenaria*—New England  
Darlington, Psyche 34, 98-99, 1927.
- Aegialia crassa*  
Brown, Can. Ent. 61, 87, 1929.
- Aegomorphus decipiens*  
Champlain, Kirk & Knell, Ent. News 36, 140, 1925.
- Aellopos titans*—Maine  
Johnson, Psyche 32, 318, 1925.
- Aenasioidea armitagei*  
niCompere, Cal. Univ. Pub. Ent. 4, 30-31, 1926.
- Aenoplex carpocapsae*  
Flanders, Pan-Pacific Ent. 3, 44, 1926.
- Aenoplex nigrosoma*  
Balduf, Ohio J. Sci. 29, 236, 1929.
- Aeolothrips duvali*  
nMoulton, Brklyn. Ent. Soc. B. 22, 186, '27.
- Aeolothrips fasciatus*  
iChilds, J. Ec. Ent. 20, 805-808, 1927.
- Aeolothrips hartleyi*  
nMoulton, Brklyn. Ent. Soc. B. 22, 185-186, 1927.
- Aeolothrips melaleucus*  
Moulton, Can. Ent. 61, 286, 1929.
- Aeolothrips oculatus*  
niHood, J.N.Y. Ent. Soc. 35, 125-126, '27.
- Aeolothrips tuolumnei*  
nMoulton, Brklyn. Ent. Soc. B. 22, 187, '27.
- Aeolothrips vehemens*, *wetmorei*  
niHood, J.N.Y. Ent. Soc. 35, 123-125, '27.
- Aeolothrips yosemitae*  
nMoulton, Pan-Pac. Ent. 5, 125-126, '29.
- Aeolus dorsalis*  
Cartwright, S. C. B. 257, 31, 1929.
- Aeolus dorsalis*  
King, Sci. Agr. 8, 704, 1928.
- Aepytus helga*, *munona*, *verresi*  
niSchaus, Wash. Ent. Soc. Proc. 31, 55-56, 1929.
- Aeroplane dusting**  
Ballou, Cal. Grape Grower 9: 8, 14, '28.  
Barnes & Potts, J. Ec. Ent. 20, 213-222, 1927.  
bBlake, Sci. Prog. 21, 388-389, 1927.
- iBlythe, Commerce & Finance 15, 133-134, Jan. 13, 1926.
- Clayton, Manufacturers' Rec. 86: 89-90, Dec. 4, 1924.
- Combs, Purdue Agr. 23, 64, 1928.
- iDacy, St. Nicholas 51, 1064-1067, 1924.
- Fischer, Power Farming 34, 5, 1925.
- iFracker and Granovsky, Wis. Hort. 17, 138-139, 1927.
- ibFracker & Granovsky, J. For. 26, 12-33, 1928.
- Granovsky, J. Ec. Ent. 19, 791-795, '26.
- Harrington, American Forests 32, 564, 1926.
- Hinds, J. Ec. Ent. 19, 607, 1926.
- Hinds & Spencer, La Plant & Sugar Mfg. Co. Ref. bk. Sugar Ind. of the World, 5: 5, 42-43, 1927.
- Hinds & Spencer, Ref. Bk. Sugar Ind. of World, f. 1928, 64.
- Hinds, Spencer & Jackson, La. R. f. 1925, 21-22, 1925.
- Holloway, et al, U.S.D.A.C. 45, 1928, 7 p.
- Jacobsen, Cal. Dept. Agr. Mo. B. 17, 662-663, 1928.
- Jardine, Oreg. Bienn. Rept. 1924-1926, 106-107, 1926.
- iKing, & Bradley, U. S. D. A. Dept. C. 367, 1926, 16 p.
- iKneen, Airway Age 10, 1218-1220, Ag. 1929.
- Kunkel, Florists Exc. 64: 2, 110, 1927.
- Lloyd, Ohio Farm. 156, 81, 1925.
- iMcCown, Am. Fr. Gr. Mag. 46; 2, 18, 1925.
- Morrill, Cal. Cult. 67, 53, 71, 1926.
- Morrill, J. Ec. Ent. 19, 695-699, 1926.
- Morrill, Cal. Dept. Agr. Sp. Pub. 73, 74, 1927.
- Morris, Sugar B. 5; 24, 3, 1927.
- iMorse, Amer. Cranb. Gr. Assoc. Proc. 56, 4-5, 8, 1925.
- iMorse, Hoosier Hort. 7, 163-170, 1925.
- Morse, Ind. Hort. Soc. Trans. 65, 34-36, 1926.
- Morse, N. J. Mosquito Exterm. Assoc. Proc. 13, 80-83, 1926.
- Moznette, Natl. Pecan Exch. News 6: 1-2, 5-13, 1929.
- iNelson, Banker Farm. 13, 4-5, 1926.

- Pendleton, Facts about Sugar 20, 611, 1925.  
 Post, Ga. Ext. B. 301, 1924, 22 p.  
 Post, Agr. Insecticide Assoc. B. 6, 29-32, 1927.  
 iRiis, Aviation 18, 573, 1925.  
 Riley, Agr. Insect. & Fung. Mfg. Assoc. B. 4, 9-11, 1926.  
 Russell, Morrison & Ebling, Wis. B. 388, 65, 1926.  
 Snapp, Ga. St. Hort. Soc. Proc. 50, 52-53, 1926.  
 iSnapp, J. Ec. Ent. 19, 450-459, 1926.  
 Steele, Manufacturers' Rec. 87, 81-83, Feb. 19, 1925.  
 iTaylor, Country Gent. 92, 3-5, 1927.  
 iThomas et al, Tex. B. 394, 1929, 40 p.  
 ibWilliams & Cook, Pub. Health R. 42, 459-480, 1927.  
 Wilson, Cong. Rec. 67, pt. 3, 3062-3063, 1927.  
 Woolman, Internat. Soc. Sugar Cane Technol. Proc. Conf. 2, 63-66, 1927.  
 Wright, Cal. Cit. 14, 385, 1929.  
 i Aircraft Year Book 1925, 59-61.  
 Aircraft Yearbk: 1926, 71-78.  
 Aircraft Yearbk: f. 1927: 91-95.  
 iAircraft Yearbook 1928, 107-110.  
 Amer. Fert. 62, 68, Apr. 18, 1925.  
 Amer. Nut. J. 28; 101, 1928.  
 iAutomobile Engin. 19, 236-241, Jl. 1929.  
 Aviation 21, 715, 1926.  
 Aviation 22, 568, 569, 1927.  
 Can. Lumberman 49: 6, 86, 1929.  
 iFacts about Sugar 20, 787, 1925.  
 Farmer & Stockman 6: 8, 22, 1929.  
 J. Ec. Ent. 18, 764, 1925.  
 J. Ec. Ent. 20, 761, 1927.  
 J. Ec. Ent. 22, 1007, 1929.  
 Lit. Digest 83, 61-62, Dec. 13, 1924.  
 iLit Dig. 85: 29, Apr. 4, 1925.  
 iLit. Dig. 99: 22-23, Nov. 10, 1928.  
 iLit. Digest 101, 60-61, Apr. 27, 1929.  
 Nation's Health, 8, 638, 1926.  
 Nebr. Farmer, 67, 154, 1925.  
 iN. J. Agr. 7, 13, 1925.  
 Pub. Health R. 42, 2337-2338, 1927.  
 Rur. N. Y. 85, 1117, 1926.  
 Science, n. s. 69, Sup. 12, F. 22, 1929.  
 Valley Farmer & Citrus Gr. 3; 1, 19, '25.  
 Aeroplane and smoke candles  
 U. S. Forest Worker 4: 1, 17, 1928.  
 Aeroplane, pest carrier  
 Jacobsen, Calif. Grape Grow. 8; 10, 6, '27.  
 Calif. Fruit News 76; 2045, 17, 1927.  
 Aeroplane, crop survey  
 iLit. Digest 99: 22-23, Nov. 10, 1928.  
 Aeroplane inspection  
 Jacobsen, Cal. Dept. Agr. Mo. B. 17, 662-663, 1928.  
 Jour. Econ. Ent. 22, 1007, 1929.  
 Aeschna spp, key  
 bSeemann, J. Ent. & Zool. 19, 24-25, '27.  
 Aeschninae—Key to genera  
 bSeemann, J. Ent. & Zool. 19, 23-24, '27.  
 Aestra psalmoidaria  
 nSchaus, Proc. Ent. Soc. Wash. 29, 108-109, 1927.  
 Aethalion picta  
 nGoding, Trans. Amer. Ent. Soc. 52, 105, 1926.  
 Aethriopsis serrana  
 nSchaus, Proc. Ent. Soc. Wash. 30, 56, '28.  
 Afilia purulha, venadia  
 nSchaus, P.U.S.N.M. 73; 19, 47, 48, '28.  
 Agabus gelidus, kenaiensis  
 nFall, Pan-Pacific Ent. 2, 141-143, 1926.  
 Agabus palustris, pseudoconfertus  
 nWallis, Can. Ent. 58, 90-93, 1926.  
 Agalinis purpurea  
 Clark, Psyche, 36, 30, 1929.  
 Agallia albidula  
 Osborn, Porto Rico Dept. Agr. J. 13, 91, 1929.  
 Agallia maculata  
 nOsborn, Ann. Ent. Soc. Amer. 19, 339, 1926.  
 Agallia pepino  
 Osborn, Porto Rico Dept. Agr. J. 13, 91, 1929.  
 Agallia pulchra, sticticollis  
 Osborn, Porto Rico Dept. Agr. J. 13, 91, 1929.  
 Agallissus chamaeropsis  
 Blatchley, Can. Ent. 57, 167, 1925.  
 Aganematodum migrans, see Ancylostoma braziliense  
 Agamospirura melanopli  
 nChristie, J. Parasitol. 15, 127, 1928.

- Agathidium maulosum*  
nBrown, Can. Ent. 60, 145, 1928.
- Agathirsia testacea*  
Muesbeck, P.U.S.N.M. 69; 16, 13-14, '27.
- Agathon*—table of species  
Walley, Can. Ent. 59, 116, 1927.
- Aglais antiopa* (Mourning cloak butterfly)\*  
ide Gryse, Can. Dept. Agr. Ent. Br. Pam. 47 n.s., rev. ed. 9, 1925.  
Hutchings, Quebec Soc. Protec. Pl. R. 18, 116, 1925-1926.  
Kilburn, Me. Nat. J. 4, 54-56, 1925.  
iPalmer, Nat. Mag. 8, 305, 1926.  
Peirson, Me. For. Serv. B. 5, 56, 1927.  
iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 18, 1926.
- Aglais milberti*  
niGunder, Can. Ent. 59, 286, 1927.
- Aglossa gigantalis*  
nBarnes & Benjamin, Proc. Ent. Soc. Wash. 27, 127, 1925.
- Agnathotermes*, new subgenus  
Snyder, P.U.S.N.M. 68, 14, 41, 1926.
- Agnipipe crinella*  
nKeifer, Pan-Pacific Ent. 3, 137, 1927.
- Agonatopus suturalis*  
niFenton, P.U.S.N.M. 72: 8, 9-10, 1928.
- Agoncryptus* n. gen.  
nCushman, P.U.S.N.M. 74: 16, 6, 1929.
- Agoncryptus discoidaloides*  
nCushman, P. U. S. N. M. 74, 7, 1929.
- Agonopteryx cogitata*  
nBraun, Can. Ent. 58, 47-48, 1926.
- Agraecia pulchella*  
niHebard, Trans. Amer. Ent. Soc. 52, 346-347, 1926.
- Agriacris magnifica*  
niHebard, Phil. Acad. Nat. Sci. Proc. 76, 177-178, 1925.
- Agricultural entomology*  
bTcharbadjief, Internat. Cong. Ent. 4, Tr. 2, 746-756, 1926.
- Agrilus acaciae*  
niFisher, U. S. N. M. B. 145, 279-281, 1928.
- Agrilus aeneocephalus*  
niFisher, U.S.N.M.B. 145, 245-246, 1928.
- Agrilus albocomus*  
niFisher, U. S. N. M. B. 145, 59-61, 1928.
- Agrilus angelicus* (Pacific oak twig girdler)  
Knowlton, Pan. Pac. Ent. 6: 42, 1929.  
Perry, Yosemite Nature Notes 8, 94-95, 1929.
- Agrilus anxius* (Bronze birch borer)\*  
iBritton and Zappe, Conn. B. 292, 147-148, 1928.  
Chamberlain, Amer. For. 33, 143, 1927.  
iChambers, Wis. Hort. 15; 5, 74-75, '25.  
iPeirson, Me. For. Serv. B. 5, 43-44, '27.  
iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 35, 1926.
- Agrilus arbuti*  
niFisher, U. S. N. M. B. 145, 50-53, 1928.
- Agrilus arcuatus* (Hickory spiral borer)  
iBrooks, J. Agr. Res. 33, 331-338, 1926.
- Agrilus armatus*  
Marlatt, U. S. D. A. Ent. R. f. 1928. 5.
- Agrilus atricornis*  
niFisher, U. S. N. M. B. 145, 86-88, 1928.
- Agrilus baboquivariae, barberi*  
niFisher, U. S. N. M. B. 145, 184-186, 311-313, 1928.
- Agrilus beniensis*  
niFisher, P.U.S.N.M. 66; 31, 21-23, 1925.
- Agrilus benjamini, betulae*  
niFisher, U. S. N. M. B. 145, 107-109, 153-155, 1928.
- Agrilus bilineatus* (Two-lined chestnut borer)\*  
Peirson, Me. For. Serv. B. 5, 52, 1927.
- Agrilus boliviensis, cavinus*  
niFisher, P. U. S. N. M. 66; 31, 12-13, 13-15, 1925.
- Agrilus chiricahuae*  
niFisher, U.S.N.M.B. 145, 243-245, 1928.
- Agrilus cockerelli*  
niFisher, P.U.S.N.M.B. 68; 7, 4-6, 1925.
- Agrilus coeruleus*  
Frost, Psyche, 36, 219, 1929.
- Agrilus costipennis, cupreonitens*  
niFisher, U. S. N. M. B. 145, 182-184, 265-267, 1928.
- Agrilus duncani*  
nKnull, Ent. News: 40: 270-271, 1929.
- Agrilus eleanorae* 320-322, *exiguellus* 277-279, *falli* 249-250  
niFisher, U.S.N.M.B. 145, 1928.

- Agrilus fisheri*  
nKnull, Ent. News; 40: 271-272, 1929.
- Agrilus fulminans*  
niFisher, U.S.N.M.B. 145, 148-150, 1928.
- Agrilus goral*  
nFisher, P.U.S.N.M. 66; 31, 19-21, 1925.
- Agrilus lautuellus* 202-204, lecontei 294-295, malvastri 247-249  
niFisher, U.S.N.M.B. 145, 1928.
- Agrilus manni*  
nFisher, P.U.S.N.M. 66; 31, 23-25, 1925.
- Agrilus manzanitae*  
nChamberlain, Pan-Pac. Ent. 5, 113, '29.
- Agrilus mimosae*  
niFisher, U.S.N.M.B. 145, 241-243, 1928.
- Agrilus nevermanni*  
nFisher, P.U.S.N.M. 76; 6, 8-10, 1929.
- Agrilus oblongus*  
niFisher, U.S.N.M.B. 145, 333-335, 1928.
- Agrilus obsoletovittatus*  
nFisher, P.U.S.N.M. 76; 6, 10-12, 1929.
- Agrilus ochraceomaculatus*  
nFisher, P. U. S. N. M. 76, 6, 5-7, 1929.
- Agrilus olentangyi*  
nChamplain & Knull, Ann. Ent. Soc. Amer. 18, 469, 1925.
- Agrilus olivaceoniger*  
niFisher, U.S.N.M.B. 145, 124-127, 1928.
- Agrilus parafloridanus*  
nKnull, Ent. News; 40: 272-273, 1929.
- Agrilus politus* 218-219, populi 150-153  
niFisher, U.S.N.M.B. 145, 1928.
- Agrilus prinadai*—Siberia  
nFisher, P.U.S.N.M. 68; 7, 6-7, 1925.
- Agrilus prosopidis* 275-277, pubescens 315-317, pubifrons 237-239, quercicola 120-122  
niFisher, U.S.N.M.B. 145, 1928.
- Agrilus raventazonus*  
nFisher, P. U. S. N. M. 76; 6, 3-5, 1929.
- Agrilus ruficollis* (Red-necked cane borer)\*  
Garlick, Dom. Canada Agr. B. 114, 22-23, 1929.  
Scholl & Stephens, Tex. Dept. Agr. B. 84, 29, 1925.
- Agrilus sesostris*  
nFisher, P. U. S. N. M. 76; 6, 7-8, 1929.
- Agrilus* spp.  
Fisher, U. S. N. M. B. 145, 1928, 347 p.  
Knaus, Kans. Ent. Soc. J. 2, 66-69, 1929.
- Agrilus takana*  
nFisher, P.U.S.N.M. 66; 31, 15-17, 1925.
- Agrilus transimpressus*  
nFall, Brklyn. Ent. Soc. B. 20, 181-182, '25.
- Agrilus triocarpae*  
nChamberlain, Pan. Pac. Ent. 5, 112-113, 1929.
- Agrilus trypaniformis*  
nFisher, P. U. S. N. M. 76; 6, 1-3, 1929.
- Agrilus tumupasaensis*  
nFisher, P.U.S.N.M. 66; 31, 17-19, 1925.
- Agrilus viridicephalus*  
nFisher, P. U. S. N. M. 76; 12-13, 1929.
- Agrilus viridis* (Rose stem girdler)  
Britton, J. Ec. Ent. 19, 544-545, 1926.  
iBritton & Zappe, Conn. B. 292, 158, '27.  
Frost, Brooklyn Ent. Soc. B. 23, 135, '28.  
Zappe, Conn. B. 275, 325, 1926.
- Agriolimax agrestis* (Garden slug)  
Baker, West. Wash. B. 10-W, n.s., 15, 1928.  
Baker, J. Agr. & Hort. 33, 2, 23-24, 1929.  
Baker, W. Wash. B. 14-W, 14, 1929.  
iBritton & Zappe, Conn. B. 292, 170, '27.  
Dustan, Quebec Soc. Protec. Pl. R. 19, 22-23, 1927.  
Mote, Oreg. C. 65, 19, 1926.  
iPettit, Mich. Sp. B. 183, 26-27, 1929.  
Smith, La. Ext. C. 113, 33, 1928.
- Agriolimax* sp.  
Compton, Canning Trade, 48: 52, 8, 1925.  
Compton, Ill. C. 297, 31-32, 1925.
- Agriotes mancus* (Wheat wireworm)\*  
iBrittain, N. S. Dept. Nat. Resource B. 12, 71-72, 1927.  
Caesar, Ont. Dept. Agr. B. 325, 12-14, 1927.  
iHawkins, Me. B. 343, 2-6, 1928.  
iPettit, Mich. Sp. B. 183, 59, 1929.  
Spittall, Proc. Acadian Ent. Soc. 10, 72, 1925.
- Agromyza laterella*  
iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 255-257.



- Agromyza parvicornis* (Corn blotch leaf miner)\*  
 iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 254-255.  
 Watson, Fla. Dept. Agr. Quar. B. 39; 3; 94-95, 1929.
- Agromyza pusilla* (Serpentine leaf miner)\*  
 iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 251-252.  
 Watson, Fla. Dept. Agr. Quar. B. 39: 3, 99, 1929.
- Agromyza schmidtii*  
 nAldrich, Proc. Ent. Soc. Wash. 31, 1929.
- Agromyza simplex* (Asparagus miner)\*  
 E. R. A., Rur. N. Y. 85, 930, 1926.
- Agromyza* spp.  
 iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 246-248.  
 Peirson, Me. For. Serv. B. 5, 44, 1927.
- Agromyza ulmi*  
 iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 253-254.
- Agronus carri*  
 niBuchanan, Ent. Soc. Wash. Proc. 31, 102-104, 1929.
- Agrothereutes microalatus, rufopectus, slossonae*  
 niCushman, P.U.S.N.M. 72; 13, 4, 1928.
- Agrotimorpha*—n. gen.  
 Barnes & Benjamin, Bklyn. Ent. Soc. B. 24, 174-176, 1929.
- Agrotis annulipes*  
 nBarnes & Benjamin, Can. Ent. 58, 304-305, 1926.
- Agrotis badinodis*  
 iCrumb, U. S. Dept. Agr. Tech. B. 88, 132-136, 1929.
- Agrotis c-nigrum* (Spotted cutworm)\*  
 Caesar, Ont. Dept. Agr. B. 325, 6-8, 1927.  
 iCrumb, U. S. F. B. 1494, 7, 1926.  
 iCrumb, U. S. D. A. Tech. B. 88, 136-140, 1929.
- Agrotis fennica* (Black-lined cutworm)  
 iPettit, Mich. R. 38, 221, 1925.  
 iblPhipps, Me. B. 340, 201-216, 1927.  
 Zappe, Conn. B. 285, 324, 1926.
- Agrotis*—n. genera—notes  
 McDunnough, Can. Ent. 59, 64-66, '27.
- Agrotis latro*  
 nBarnes & Benjamin, Can. Ent. 58, 305-306, 1926.
- Agrotis miniptica*  
 nDyar, Pan-Pac. Ent. 4, 8, 1927.
- Agrotis scaramangoides*  
 nBarnes & Benjamin, Pan-Pac. Ent. 2, 107-108, 1926.
- Agrotis septentrionalis*  
 nBarnes & Benjamin, Can. Ent. 58, 303-304, 1926.
- Agrotis tenuicula*  
 Barnes & Benjamin, Brooklyn Ent. Soc. B. 20, 189, 1925.
- Agrotis unicolor* (W-marked cutworm)\*  
 iCrumb, U. S. D. A. Tech. B. 88, 140-145, 1929.  
 Zappe, Conn. B. 275, 324, 1926.
- Agrotis ypsilon* (Black cutworm)\*  
 iCaesar, Ont. Dept. Agr. B. 325, 6-8, 1927.  
 iCrumb, U. S. F. B. 1494, 3-4, 1926.  
 iblCrumb, U.S.D.A. Tech. B. 88, 52-58, '29.  
 Langston, Miss. St. Plt. Bd. Quar. B. 8; 1, 7-8, 1928.  
 Lyle, Miss. St. Plt. Bd. Quar. B. 7: 2, 1-4, 1927.  
 bRockwood, J. Ec. Ent. 18, 717-721, '25.
- Agrypnus masteri*  
 Box, Porto Rico Dept. Agr. J. 9, 310, 1925.
- Agrypnus sallei*  
 Knaus, Kans. Ent. Soc. J. 1: 2, 20, '28.
- Ahmosia*, n. gen., *galbinea*  
 niHeinrich, U.S.N.M.B. 132, 97-99, '26.
- Aicis attracta*  
 nSchaus, Proc. Ent. Soc. Wash. 29, 79, '27.
- Aidemonia azteca*  
 Hebard, Trans. Amer. Ent. Soc. 51, 292, 1925.
- Ailanthus* moth, *see* *Philosamia cynthia*
- Air currents**—Dissemination of insects..  
 Felt, J. Ec. Ent. 18, 152-156, 1925.  
 bFelt, N.Y. St. Mus. B. 274, 59-129, '28.
- Air routes and plant quarantine**, *see* **Plant quarantine, inspection and air routes**

- Airamia*, n. gen.  
Barnes & Benjamin, Pan-Pac. Ent. 3, 73-74, 1926.
- Airora*  
Mutchler & Weiss, N. J. Dept. Agr. C. 154, 10, 1929.
- Airplane*, *see* *Aeroplane*
- Airplane bug*  
Curran, Nat. Hist. 29, 613, 1929.
- Ajacania*—n. gen., *steinbachalis*  
niSchaus, Ann. Carnegie Mus. 16, 1, 14-15, 1925.
- Ajocara*—n. gen., *amazona*  
niSchaus, Ann. Carnegie Mus. 16; 1, 15, 1925.
- Ajocara phileasalis*  
niSchaus, Ann. Carnegie Mus. 16; 1, 15-16, 1925.
- Akermes cordiae*  
niMorrison, Ann. Ent. Soc. Amer. 22, 45-48, 1929.
- Alabama argillacea* (Cotton leaf worm)\*  
Baker, Virgin Isl. R. f. 1925, 16, 1926.  
Ballou, Internat. Cong. Ent. 4, Tr. 2, 94-96, 1929.  
iBentley, Tenn. Dept. Agr. Bien. R. 1923-24, 34, 1924.  
Britton, Conn. B. 285, 277, 1927.  
Davis, Ind. Acad. Sci. Proc. 41, 315, 1925.  
Felt, Sci. Amer. 132, 266, 1925.  
Felt, N. Y. St. Mus. B. 274, 92-93, 1928.  
Fernald, Applied Ent. Ed. 2, 272, 1926.  
Hinds, La. Ext. C. 91, 1926, 3 p.  
Hull, J. Ec. Ent. 22; 792-796, 1929.  
Lieber, Ind. Dept. Conserv. R. 8, 42, 1926.  
Ludwig, Country Gent. 92: 12, 62, 1927.  
Ludwig, S. C. B. 238, 23 p., 1927.  
iMarcovitch, Farm Journal, 50; 7, 14-15, 1926.  
Marcovitch, J. Ec. Ent. 19, 413-414, '26.  
Morrill, Cal. Dept. Agr. Sp. Pub. 73, 80, 1927.  
Parrott, Proc. N.Y. Hort. Soc. 72, 7, '27.  
Reppert, Tex. Ext. Serv. Farm News 9; 21, 1, 1926.  
Reppert, Tex. Ext. Ser. Farm News 10; 19, 1, 4, 1925.
- Ross & Caesar, Ont. Ent. Soc. R. 58, 17, 1928.
- Scholl, Okla. Ext. News 7; 2, 3, 1925.
- Trumbull, Tex. Ext. Farm News 11: 2, 3, 1925.
- Wolcott, Amer. Nat. 63, 82-87, 1929.
- Alamogordia*—n. gen.  
nDyar & Heinrich, P.U.S.N.M. 71; 19, 38, 1928.
- Alaptus psocidivorus*  
nGahan, Pan-Pac. Ent. 3, 180-181, 1927.
- Alapus*—n. gen.  
niDeLong & Slesnan, Ann. Ent. Soc. Amer. 22, 86-87, 1929.
- Alarodia minuscula*  
nDyar, J. Wash. Acad. Sci. 17, 549, 1927.
- \**Alaska spruce beetle*, *see* *Dendroctonus borealis*
- Alaus aculatus* (Eyed click beetle)\*  
Fernald, Applied Ent. Ed. 2, 108, 1926.
- Alcaligines stevensae*  
nBrown, Amer. Mus. Nov. 251, 6-7, 1927.
- Alcathoe carolinensis*, *pepsiodides*  
nEngelhardt, Brklyn. Ent. Soc. B. 20, 156-158, 1925.
- Alchisme costaricensis*  
nGoding, J. N. Y., Ent. Soc. 37, 171-172, 1929.
- Alcidamia producta* (Pulp-making bee)  
iRau, Psyche 35, 100-107, 1928.
- Alcimus biseriatus*, *doris*  
niCurran, Amer. Mus. Nov. 272, 16-18, '27.
- Alcmeone unistriga*  
nGoding, Trans. Amer. Ent. Soc. 52, 107-108, 1926.
- Alconeura* spp.—Key  
Ball & DeLong, Ann. Ent. Soc. Amer. 18, 334-337, 1925.
- Alder blight aphid*, *see* *Pemphigus tessellatus*
- Alder borer*, *see* *Saperda obliqua*
- Alder flea beetle*, *see* *Haltica bimarginata*
- Alder leaf miner*, *see* *Kaliosysphinga dohrnii*
- Alder leaf roller*, *see* *Gelechia oronella*
- Alder tree borer*, *see* *Aegeria americana*
- Alder weevil*, *see* *Attelabus rhois*

**Alebra albstriella** (Norway maple leaf-hopper)

iBall, J. Ec. Ent. 19, 95-99, 1926.

iMcAtee, J. N. Y. Ent. Soc. 34, 142-143, 1926.

**Alebra decorata**

niOsborn, Annals Carnegie Mus. 18, 255, 1928.

**Alebra dorsalis**

McAtee, J.N.Y. Ent. Soc. 34, 146, 1926.

**Alebra fulvomaculata**

niOsborn, Annals Carnegie Mus. 18, 255, 1928.

**Alebra pictifrons**

niOsborn, Annals Carnegie Mus. 18, 256, 1928.

**Aleurocanthus woglumi** (Citrus black-fly)\*

Bruner, Cuba C. 68, 25-26, 1929.

Gowdey, Jamaica Sci. &amp; Agr. Dept. Ann. R. f. 1926, 16, 1927.

Gowdey, Jamaica Sci. &amp; Agr. Dept. Ann. R. f. 1927, 20, 1928.

Jacobsen, Cal. Dept. Agr. Mo. B. 17; 665-666, 1928.

McLaren, J. Jam. Agr. Soc. 31, 93, 1927.

Montgomery, Fla. Month. B. 12, 200, '28.

Moznette, Fla. St. Pl. Bd. Quar. B. 11, 120-121, 1927.

Watson, Fla. B. 183, 347, 1926.

**Aleurodes citri**, *see* **Dialeurodes citri****Aleurodes packardi**, *see* **Trialeurodes packardi****Aleurodes tabaci**

Watson, Fla. Dept. Agr. Quar. B. 39: 3; 144, 1929.

**Aleurodicus pimentae** (Pimento white fly)\*

Gowdey, J. Jam. Agr. Soc. 31, 418-419, 1927.

Gowdey, Jamaica Sci. &amp; Agr. Dept. Ann. R. f. 1927, 20-21, 1928.

**Aleuroplatus (Orchamus) samoanus**

iDozier, J. Agr. Res. 36, 1002-1005, 1928.

**Aleurothrixus floccosus**

Cook &amp; Dozier, Porto Rico Ins. C. 88, 14, 1925.

Watson, Fla. B. 183, 346, 1926.

**Aleurothrixus howardii** (Woolly white-fly)\*

Berger, Citrus Indus. 6: 4, 20, 1925.

iHume, Cultivation of Citrus Fruits, 1926, 450-452.

iWatson, Fla. B. 183, 343-346, 1926.

Watson, Cit. Ind. 10: 8; 26, 1929.

**Aleyrodes** spp.

Berger, Citrus Indus. 6: 4, 20, 1925.

**Aleyrodes vaporariorum**, *see* **Trialeurodes vaporariorum****\*Alfalfa caterpillar**, *see* **Eurymus eurytheme****Alfalfa** insects

Call, Kans. R. f. 1924-26, 80-82.

Call, Kans. R. f. 1926-28, 75-77.

iCarter &amp; Ruggles, Minn. Ext. Sp. B. 99, 1925, 8 p.

Doten, Nev. R. f. 1928, 25-26, 1929.

Rockwood, Columbia Port Digest 4: 4, 8-9, 1926.

**\*Alfalfa looper**, *see* **Autographa californica****Alfalfa thrips**, *see* **Frankliniella occidentalis****\*Alfalfa weevil**, *see* **Phytonomus posticus****Alfaria bufonis**

nMann, Psyche 33, 101-102, 1926.

**Aligia californica**, *colei*

nVan Duzee, Proc. Cal. Acad. Sci. ser. 4, 14, 411-413, 1925.

**Alipumilio**—n. gen.

nShannon, P.U.S.N.M. 70; 9, 12, 1927.

**Alipumilio femoratus**

niShannon, P.U.S.N.M. 70; 912-913, '27.

**Allantus (Emphytus) basalis**—Siberia

Rohwer, P.U.S.N.M. 68; 8, 4-5, 1925.

**Allaptus psocidivorus**

niSpruyt, Pan-Pac. Ent. 3, 182-184, 1927.

**\*Allegheny spruce beetle**, *see* **Dendroctonus punctatus****Allobrox**, n. gen., *dampfi*

nFletcher, Ann. Ent. Soc. Amer. 21, 206-207, 1928.

**Allocapnia forbesi**, *mystica*

nibFrison, Ill. Nat. Hist. Survey B. 18, 397-403, 1929.

**Allocapnia**—North America

nClaassen, Annals Ent. Soc. Amer. 21: 667, 1928.

- Alloodape plebeia**  
nCockerell, Amer. Mus. Nov. 346, 15, 1929.
- Alloodia cincta, hirticauda**  
niVanDuzee, Cal. Acad. Sci. Proc. 17; 2, 50-51, 1928.
- Alloeorrhynchus delicatus**  
nHarris, Ent. Amer. 9, 18-19, 1928.
- Alloeorrhynchus flavomarginatus, nigro-fasciatus**  
nHarris, Ent. Amer. 9, 17-18, 1928.
- Allograpta exotica**  
Curran, Can. Ent. 58, 112-113, 1926.
- Allograpta fuscisquama**  
nCurran, Amer. Mus. Nov. 245, 4-5, '27
- Allograpta obliqua**  
Eddy, Ohio J. Sci. 27, 196, 1927.  
ibFluke, Wis. Res. B. 93, 32-33, 1929.  
Miller, Fla. B. 203, 460, 1929.  
Thompson, Fla. Ent. 11, 52, 1928.  
Watson, Fla. B. 183, 368, 1926.
- Allograpta piurana**  
niShannon, P. U. S. N. M. 70; 9, 9, 1927.
- Allograpta pulchra**  
nShannon, P. U. S. N. M. 70; 9, 25, 1927.
- Allograpta venusta**  
nCurran, Amer. Mus. Nov. 245, 5-6, '27.
- Allomyella borealis, robusta**  
nCurran, Can. Ent. 59, 260-261, 1927.
- Allonoyma vicarialis**  
Gilliatt, Ont. Ent. Soc. R. 58, 38, 1928.
- Alloperla—Key**  
bSeemann, J. Ent. & Zool. 19, 55, 1927.
- Allophrys oculatus**  
nCushman, P.U.S.N.M. 76; 25, 14, 1929.
- Allothrobium fuliginosum**  
iPaillot, Internat. Corn Borer Invest. Sci. R. 1, 105-106, 1928.
- Allothrobium missouriense**  
Miller, Ohio B. 386, 114-115, 1925.
- Allothrobium pulvinus**  
bFluke, Wis. Res. B. 93, 6, 1929.  
Miller, Ohio B. 386, 113-114, 1925.
- Allotonius horsefieldi**  
Clark, Smithsonian R. f. 1925, 451, 1926.
- Allotorymus—n. gen.**  
niHuber, P.U.S.N.M. 70; 14, 104, 1927.
- Allotrichoma spp.**  
nCresson, Trans. Amer. Ent. Soc. 52, 251-252, 1926.  
nCresson, Trans. Amer. Ent. Soc. 55, 173-176, 1929.
- Almond insects**  
Mackie, Cal. Almond Gr. Exch. [Pam] Dec. 8, 1926, 4 p.  
Taylor & Philp, Cal. C. 284, 43-46, 1925.
- Alobates pennsylvanica**  
Reinhard, Nat. Mag. 13, 155, 1929.
- Alpha apache**  
Hubbell, Fla. Ent. 9, 43, 1925.
- Alphitoaphis, n. gen., lonicericola**  
nHottes, Proc. Biol. Soc. Wash. 39, 116, 1926.
- Alphitobius piceus**  
iBack & Cotton, U.S.F.B. 1260; rev. Dec. 1925, 40.
- Alsophila pometaria (Fall canker worm)\***  
Brittain, Proc. Acad. Ent. Soc. 10, 40-41, 1925.  
Brittain, N. S. Dept. Nat. Resource B. 12, 22-23, 1927.  
Brittain, Ont. Ent. Soc. R. 59, 9, 1929.  
iBritton, & Zappe, Conn. B. 292, 120-121, 1927.  
Britton, Conn. B. 305, 764, 1929.  
ide Gryse, Can. Dept. Agr. Ent. Br. Pam. 47, n.s. rev. ed. 17-19, 1925.  
Felt, N. Y. St. Mus. B. 260, 47, 1925.  
Jacobsen, Calif. Dept. Agr. Mo. B. 16, 655, 1927.  
Fernald, Applied Ent. ed. 2, 256, 1926.  
iPeirson, Me. For. Serv. B. 5, 27, 1927.  
Sherman, N. C. R. 47, 76, 1925.  
Spittall, Proc. Acad. Ent. Soc. 10, 64, '25.  
Spittall, Ont. Ent. Soc. R. 58, 11, 1928.  
Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 13, 1926.  
Weinland, Calif. Cult. 69, 7, 1927.
- Altica, see also Haltica**
- Altica woodsi**  
Gibson, Ont. Ent. Soc. R. 55, 23-24, 1925.
- Alypia octomaculata (Eight-spotted for-ester)\***  
Britton & Zappe, Conn. B. 292, 157, '27.

**Amagypsyche, n. gen.**

Cockerell, P.U.S.N.M. 68; 5, 3-4, 1925.

**Amara (Cyrtonotus) consueta**

iFall, Pan-Pac. Ent. 2, 135-136, 1926.

**Amastris funkhouseri, vismiae**

niHaviland-Brindley, Zoologica, N. Y. 6, 251-252, 1925.

**Amastus aphraates, ferrera**

nSchaus, Proc. Ent. Soc. Wash. 29, 74-75, 1927.

**Amata spp.**

nSchaus, Proc. Ent. Soc. Wash. 30, 52-53, 1928.

**Amauromyrmex—n. gen., speculifrons**

niWheeler, Amer. Mus. Nov. 349, 1-3, '29

**Amaurosoma alberta**

nCurran, Can. Ent. 59, 293-294, 1927.

**Amaurosoma brunneicosta**

nJohnson, Psyche 34, 100-101, 1927.

**Amaurosoma spp.—table**

Johnson, Psyche, 34, 100, 1927.

**Amber insects**

Berry, Sci. Mo. 24, 268-278, 1927.

Carpenter, Psyche 34, 30, 1927.

**Amblychila gen.**

Hamilton, P. U. S. N. M. 65, Art. 17, 69, 1925.

**Amblychila cylindriciformis**

iHamilton, P.U.S.N.M. 65; 17, 70, 1925.

**Amblycorypha**

Allard, Smithsonian. R. f. 1928, 577-579, '29.

**Amblycorypha oblongifolia (Round-headed katydid)**

Davis, J.N.Y. Ent. Soc. 35, 171-174, '27.

Nabours, Ent. News 40, 14-16, 1929.

**Amblycorypha rotundifolia**

iBrownell, Nat. Mag. 8, 78, 1926.

Fernald, Applied Ent. ed. 2, 85-86, '26.

**Amblydisca cinerea**

niOsborn, Annals Carnegie Mus. 16, 164, 1926.

**Amblyomma americanum**

Miller, Ohio B. 386, 129, 1925.

**Amblyomma cajennense**

Chandler, Animal Parasites, Ed. 3, 367, 1925.

Dunn, Am. Jr. Trop. Med. 9, 507, 1929.

Hall, J. Amer. Vet. Med. Assoc. 70, (n.s. 23), 944, 1927.

**Amblyomma dissimile**

Dunn, Am. Jr. Trop. Med. 9, 508, 1929.

**Amblyomma hebraeum**

Chandler, Animal Parasites, Ed. 3, 367, 1925.

iCowdry, J. Exper. Med. 41, 817-830, '25.

**Amblyopone**

Wheeler, Amer. Acad. Arts & Sci. Pro. 62: 1, 1927, 29 p.

**Amblyopone aberrans**

niWheeler, Amer. Acad. Arts & Sci. Proc. 62; 1, 26-29, 1927.

**Amblyopone australis**

niWheeler, Amer. Acad. Arts & Sci. Pro. 62; 1, 9, 1927.

**Amblyopone clarki**

niWheeler, Amer. Acad. Arts & Sci. Pro. 62; 1, 24-25, 1927.

**Amblyopone hackeri**

niWheeler, Amer. Acad. Arts & Sci. Pro. 62; 1, 22-24, 1927.

**Amblyopone leae**

niWheeler, Amer. Acad. Arts & Sci. Pro. 62; 1, 17, 1927.

**Amblyscirtes alternata**

Bell, J. N. Y. Ent. Soc. 34, 271, 1926.

Bell, J. N. Y. Ent. Soc. 34, 353, 1926.

**Amblyscirtes texanae**

nBell, Brklyn. Ent. Soc. B. 22, 203-204, 1927.

**Amblyteles caeruleus**

Flanders, Pan-Pac. Ent. 2, 158, 1926.

**Amblyteles nunciis**

Suow, J. Ec. Ent. 18, 607-608, 1925.

**Amblyteles puerilis**

iPettit, Mich. Bd. Agr. R. 65, 265, 1927.

**Amblyteles scelestus**

iMiller, Flower Grow. 11, 474, 1924.

**Amblyteles—spp.**

Baldus, Ohio J. Sci. 29, 226, 1929.

**Amblyteles vadatorius**

Cushman, Proc. Ent. Soc. Wash. 28, 42, 1926.

**Amblyteles velox**

nCushman, P.U.S.N.M. 76; 25, 1, 1929.

iPettit, Mich. Bd. Agr. R. 65, 265, 1927.

**Amblytropidia mysteca**

Hebard, Trans. Amer. Ent. Soc. 51, 271-272, 1925.

- Amblytylus vanduzeei*  
nBlatchley, J.N.Y. Ent. Soc. 36, 15-16, '28.
- Ambrosia* beetles, *see* *Xyleborus* spp.
- Ambush bug*, *see* *Phymata erosa*
- Ameletus cooki*  
nMcDunnough, Can. Ent. 61, 174, 1929.
- Ameletus similior*  
nMcDunnough, Can. Ent. 60, 9, 1928.
- Ameletus velox*  
Needham & Christenson, Utah B. 201, 11-12, 1927.
- Ameletus fugitivus*  
Viereck, Can. Ent. 57, 104, 1925.  
Viereck, Can. Ent. 58, 65, 1926.
- \**American Cockroach*, *see* *Periplaneta americana*
- American copper*, *see* *Chrysophanus hypophlaeus*
- \**American dagger moth*, *see* *Acronycta americana*
- \**American dog tick*, *see* *Dermacentor variabilis*
- American flea-beetle*, *see* *Systema basalis*
- \**American grasshopper*, *see* *Schistocerca americana*
- Ametastegia glabrata* (Dock false worm)  
Bourne, Mass. B. 226, 22, 1926.  
iBrittain, N. S. Dept. Nat. Resource B. 12, 38, 1927.  
Spittall, Proc. Acad. Ent. Soc. 10, 64, '25.
- Ametropus neavei*  
nMcDunnough, Can. Ent. 60, 9-10, 1928.
- Amitus aleurodinus*  
Gahan, P.U.S.N.M. 71: 4, 39, 1927.
- Ammophila* sp.  
iHerrick, Rur. N. Y. 84, 1204, 1925.  
Lutz, Nat. Hist., N. Y. 26, 135, 1926.
- Amonodontomerus beerwahi*  
nGirault, Ins. Insc. Mens. 14, 68, 1926.
- Amonodontomerus megastigmoides*  
nGirault, Ins. Insc. Mens. 14, 67-68, '26.
- Amorbia essigana*  
niBusck, Cal. Avocado Ass'n Yr. Bk. 1929, 127-128.  
Busck, Cal. Dept. Agr. Mo. B. 18, 276-277, 1929.
- Amorbia humerosana*  
IFrost, Penn. St. B. 205, 1926, 15 p.  
Gilliatt, Ont. Ent. Soc. R. 58, 39, 1928.
- Amorphococcus*—gen., leptospermi  
Morrison & Morrison, P. U. S. N. M. 71: 17, 2-3, 1927.
- Amphibolips ellipsoidal*  
nWeld, P.U.S.N.M. 68; 10, 105-106, '26.
- Amphicoma* sp.  
Hayes, Ann. Ent. Soc. Amer. 21, 288, '28.
- Amphipogon* gen., spectrum  
Shannon, Proc. Ent. Soc. Wash. 28, 114, 1926.
- Amphipsylla hadweni*  
nEwing, Proc. Biol. Soc. Wash. 40, 89-90, 1927.
- Amphizoa lecontei*  
—B. C. Provin. Mus. R. f. 1928, F24, 1929.
- Amphizoa planata*  
nVan Dyke, Pan-Pac. Ent. 3, 98, 1927.
- Amphizoa* sp.—Notes on habits  
Darlington, Psyche 36, 383-385, 1929.  
Van Dyke, Pan-Pac. Ent. 3, 97, 1927.
- Amphizoa striata*  
nVan Dyke, Pan-Pac. Ent. 3, 197-198, '27.
- Amphorophora alni*  
niMason, P.U.S.N.M. 67; 20, 9-10, 1926.
- Amphorophora aridus*  
iKnowlton, Pan-Pac. Ent. 6: 40-42, '29.
- Amphorophora arnicae*  
nGlendenning, Can. Ent. 58, 97, 1926.
- Amphorophora azaleae, borealis, braggi*  
nMason, P.U.S.N.M. 67; 20, 11-14, 1926.
- Amphorophora cosmopolitana*  
niMason, P.U.S.N.M. 67; 20, 16-26, 1926.  
Quaintance & Baker, U. S. F. B. 1128; rev. Apr. 1926, 22.
- Amphorophora davidsoni*  
niMason, P.U.S.N.M. 67; 20, 28-29, 1926.
- Amphorophora essigwanai*  
niMason, P.U.S.N.M. 67; 20, 29-31, 1926.
- Amphorophora geranii*  
Gillette & Palmer, Ann. Ent. Soc. Amer. 22, 473-474, 1929.
- Amphorophora halli*  
niKnowlton, Pan-Pac. Ent. 3, 185-186, '27.
- Amphorophora hayhursti*, 31-32, *A. liangi* 32-35, *A. maxima* 35, *A. minima* 36, *A. mitchelli* 36-37, *A. morrisoni* 37.  
Mason, P. U. S. N. M. 67, Art. 20, 1926.
- Amphorophora nigricornis*  
niKnowlton, Pan-Pac. Ent. 3, 185, 1927.

- Amphorophora occidentalis**  
nKnowlton, Pan-Pac. Ent. 6: 39-40, '29.
- Amphorophora pallida** 49-40, **pergandei** 49-51, **reticulata** 51, **rhododendronia** 51-52  
niMason, P.U.S.N.M. 67; 20, 51, 1926.
- Amphorophora rubi**  
iBennett, Mich. Tech. B. 80, 12-18, 32, 1927.  
iMason, P.U.S.N.M. 67; 20, 52-57, 1926.  
Rankin, N. Y. Gen. B. 543, 35-38, 1927.  
Winter, Minn. Tech. B. 61, 1929, 30 p.
- Amphorophora rubicola**  
Mason, P.U.S.N.M. 67; 20, 58, 1926.  
Winter, Minn. Tech. B. 61, 12-25, 1929.
- Amphorophora sensoriata**  
iBennett, Mich. Tech. B. 80, 12-18, 1927.
- Amphorophora—spp.—Revision**  
iMason, P.U.S.N.M. 67; 20, 1926, 92 p.  
Rankin, N. Y. Geneva B. 543, 38, 1927.
- Amphorophora takahashii** 67, **vaccinii** 67-70, **zhuravlevi** 71-73  
niMason, P.U.S.N.M. 67; 20, 67-73, 1926.
- Amplucomia beetles & poppy**  
Mace, Sci. Prog. 22; 85, 49-56, 1927.
- Amusodes estrellae**  
niHebard, Trans. Amer. Ent. Soc. 54, 49-50, 1928.
- Amyl salicylate**, *see* Insecticides, **Amyl salicylate**
- Amysrsidea—n. gen.**  
nEwing, J. Wash. Acad. Sci. 17, 90, '27.
- Anabrus longipes**  
iCriddle, Can. Ent. 58, 261-265, 1926.  
Ruhmann, British Columbia Dept. Agr. R. 21, N39, 1927.
- Anabrus simplex (Mormon cricket)\***  
Cooley, Mont. B. 170, 24, 1925.  
Cooley, Mont. B. 200, 4-5, 1927.  
ibCowan, U.S.D.A. Tech. B. 161, 1929, 28 p.  
Cowan, Colo. Mt. St. Beet Grow. 3: 4, 8, 1929.  
ibCowan & Campbell, Colo. Ent. C. 53, 1929, 28 p.  
Essig, Insects of Western No. Amer. 1926, 92-93.  
Gillette, Colo. Ent. C. 47, 13, 1925.  
Hawley, Utah C. 54, 23, 1925.  
Linfield, Mont. R. 34, 94-96, 1927.
- bShotwell & Cowan, J. Ec. Ent. 21, 222-230, 1928.
- Anacaena gen.**  
Winters, Pan-Pac. Ent. 3, 55-56, 1926.
- Anacetrus (Limnobaris) vicarius**  
Blatchley, J.N.Y. Ent. Soc. 36, 254-255, '28.
- Anacomptomyia americana**  
iCurran, Amer. Mus. Nov. 260, 8, 1927.
- Anacraga citrinopsis** 550, **ingenescens** 551, **phasma** 551, **sororcula** 551  
Dyar, J. Wash. Acad. Sci. 17, 1927.
- Anacroneuria—Key**  
iNeedham & Broughton, J. N. Y. Ent. Soc. 35, 111, 1927.
- Anagyrus aurantifrons**  
iCompere, Cal. Univ. Pub. Ent. 4; 1, 15-18, 1926.
- Anagyrus clauseni**  
iTimberlake, Cal. Univ. Tech. B. Ent. 3; 2, 226-228, 1924.
- Anagyrus dactylopii**  
Swezey, J. Ec. Ent. 19, 718-719, 1926.
- Anagyrus ferrisi**  
iCompere, Cal. Univ. Pub. Ent. 4, 18-22, 1926.
- Anagyrus subalbicornis**  
liTimberlake & Clausen, Cal. Univ. Tech. B. Ent. 3; 2, 274-276, 1924.
- Anamorphus pusillus**  
Blatchley, Can. Ent. 57, 166, 1925.
- Anaphes pratensis**  
Christie, Ind. R. 41, 43, 1928.
- Anaphoidea calendrae**  
niGahan, P.U.S.N.M. 71; 4, 32-35, 1927.
- Anaphoidea conotracheli**  
Porter, U.S.D.A. Tech. B. 66, 29, 1928.
- Anaphothrips gen.**  
Moulton, Pan-Pac. Ent. 3; 1, 22, '26.
- Anaphothrips—Key N. A. spp.**  
Watson, Fla. Ent. 11, 42-43, 1927.
- Anaphothrips (Anaphothrips) apteris**  
Moulton, Pan-Pacific Ent. 3; 1, 23-24, 1926.
- Anaphothrips bicinctus**  
nHood, Psyche, 32, 50, 1925.
- Anaphothrips bicolor**  
nMorgan, Fla. Ent. 9; 1, 4-5, 1925.
- Anaphothrips crassicornis**  
nMoulton, Bklyn. Ent. Soc. B. 24, 231-232, 1929.

- Anaphothrips decolor**  
 nHood, Ent. News 36, 101, 1925.
- Anaphothrips (Odontanaphothrips) enceliae**  
 nMoulton, Pan-Pacific Ent. 3; 1, 24-25, 1926.
- Anaphothrips flavidus—Africa**  
 nHood, Proc. Ent. Soc. Wash. 27, 8, '25.
- Anaphothrips minutus**  
 nMoulton, Pan-Pac. Ent. 5, 127-129, '29.
- Anaphothrips (Proscirtothrips) monotropae**  
 nWatson, Fla. Ent. 11, 29-30, 1927.
- Anaphothrips orchidaceous**  
 Watson, Fla. Ent. 11, 41-42, 1927.
- Anaphothrips priesneri**  
 iMoulton, Trans. Amer. Ent. Soc. 52, 123-124, 1926.
- Anaphothrips secticornis**  
 Hood, Pan-Pac. Ent. 3, 173-174, 1927.
- Anaphothrips (Anaphothrips) stanfordi**  
 iMoulton, Pan. Pacific Ent. 3, 1, 23, '26.
- Anarhopus—n gen., sydneyensis**  
 iTimberlake, Cal. Univ. Pub. Ent. 5; 2, 15-18, 1929.
- Anarsia lineatella (Peach twig borer)\***  
 Braunton, Cal. Cult. 73, 510, 1929.  
 Davis, Hoosier Hort. 7, 158-159, 1925.  
 Duruz, Cal. Cult. 66, 306, 1926.
- ibEssig, Insects of Western No. Amer.**  
 1926, 718-719.  
 H. R. T., Rur. N. Y. 85, 1292, 1926.  
 Jacobsen, Cal. Dept. Agr. Mo. B. 15, 130, 1926.  
 Jacobsen, Cal. Dept. Agr. Mo. B. 16, 656, 1927.
- ilSnapp, U. S. F. B.** 1557, 32, 1928.  
 Stanford, Cal. Cult. 65, 192, 1925.
- Anarta spp.**  
 McDunnough, Can. Ent. 57, 307-309, '25.
- Anarta macleani**  
 iMcDunnough, Can. Ent. 59, 207, 1927.
- Anartia jatrophae**  
 Danforth, Porto Rico Dept. Agr. J. 10; 1, 23, 1926.
- Anasa armiger (Horned squash bug)**  
 Watson, Fla. Dept. Agr. Quar. B. 39, 3, 81, 1929.
- Anasa tristis (Squash bug)\***  
 Baldwin, Market Gr. J. 42, 141, 1928.
- iCaesar, Ont. Dept. Agr. B.** 325, 44-45, 1925.
- Compton, Canning Trade** 48; 52, 10, 12, '25
- Compton, Ill. C.** 297, 36, 1925.
- iDrake & Harris, Iowa C.** 90, rev., 8, 1926.
- Little, J. Ec. Ent.** 20, 575-577, 1927.
- McHatton, Firor & Keener, Ga. Ext.**  
 B. 257, rev., 27, 1926.
- MacLeod, Penn. St. Ext. C.** 122, 30-31, 1929.
- iPettit, Mich. Sp. B.** 183, 29-30, 1929.
- Preble, Nat. Mag.** 8, 28, 1926.
- iSpencer & Henderson, Va. Truck B.**  
 52, 411, 1925.
- Stetson, Market Gr. J.** 39, 777, 1926.
- iWatson, Fla. Dept. Agr. Quar. B.** 39: 3, 123-124, 1929.  
 —Amer. Prod. Grow. 4: 10, 11, '25.
- Anastatoidea—n. gen., brachartoniae**  
 Gahan, P.U.S.N.M. 71; 4, 12-15, 1927.
- Anastatus albitarsis**  
 iClausen, Ann. Ent. Soc. Amer. 20, 461-473, 1927.
- Anastatus bifasciatus**  
 Ashworth & Britton, Conn. B. 294, 243-244, 1928.  
 iCrossman, J. Agr. Res. 30, 658-673, '25.
- bMuesebeck & Dohanian, U. S. D. A.**  
 B. 1487, 24, 1927.
- biParker & Thompson, Ann. Ent. Soc. Amer.** 18, 388-390, 1925.  
 —J. Ec. Ent. 18, 762, 1925.
- Anastatus disparis**  
 ilhBurgess & Crossman, U. S. D. A. Tech. B. 86, 23-31, 1929.
- Anastatus pearsalli**  
 bMuesebeck & Dohanian, U. S. D. A. B., 1487, 24-25, 1927.
- Anastrepha barnesi, cordata**  
 Aldrich, P.U.S.N.M. 66; 18, 3-5, 1925.
- Anastrepha fraterculus (West Indian fruit fly)\***  
 Gowdey, Jamaica Sci. & Agr. Dept. Ann. R. f. 1927, 20, 1928.
- iGreene, J. Agr. Res.** 38, 496, 1929.
- Jardine, U. S. D. A., F. H. B., S. R. A.,**  
 83, 46-49, 1925.
- Jardine, U. S. D. A., F. H. B., S. R. A.,**  
 82, 17-18, 1925.



*Anastrepha fraterculus* *Cont'd*

Jardine, U. S. D. A., F. H. B., S. R. A.,  
83, 45-46, 1925.

Kisliuk, J. Wash. Acad. Sci. 18, 44-45,  
1928.

Quayle, Cal. C. 315, 11-12, 1929.

Quayle, Cit. Leaves, 9; 8, 2, 1929.

Sein, Porto Rico Insul. R. f. 1927-8,  
24, 1929.

Sein, Porto Rico Insul. R. f. 1927-8,  
93-94, 1929.

iTodd, Cal. Agr. B. 16, 344-350, 1927.

Warner, Fla. Month. B. 12, 212-213,  
1928.

———J. Ec. Ent. 18, 654, 1925.

*Anastrepha ludens*, (Mexican fruit worm)

iCrawford, Cal. Agr. Mo. B. 16, 422-  
445, 1927.

Crawford, Cal. St. Pl. Bd. Mo. B. 12,  
239-271, 1928.

Dean, Cal. Dept. Agr. Sp. Pub. 85, 47,  
1928.

Dunlap, USDA, FHB, SRA, 91, 71, '27.

iFleury, Cal. Agr. Mo. B. 16, 291-293,  
1927.

iGreene, J. Agr. Res. 38, 495-496, 1929.  
Hecke, Cal. Fruit News, 76; 2040, 11,  
1927.

Hecke, Cal. Dept. Agr. Mo. B. 17, 57, '28.

Hoidale, U. S. D. A., P. Q. C. A., S. R.  
A. 96, 77-78, 1928.

Hoidale, J. Ec. Ent. 22, 786-789, 1929.

Jacobsen, Cal. Dept. Agr. Mo. B. 15,  
123-124, 1925.

Jacobsen, Cal. Dept. Agr. Mo. B. 16,  
652, 1927.

Jardine, Cit. Industry, 8; 8, 30, 1927.

Jardine, USDA, FHB, SRA 92, 109-113,  
1927.

iMackie, Cal. Cit. 13, 43, 1927.

Mackie, Cal. Cult. 69, 211, 1927.

Mackie, Cal. Fruit News, 76; 2050, 5,  
1927.

iMackie, Cal. Dept. Agr. B. 17, 296-323,  
1928.

Mackie, Citrus Ind. 9; 1, 14, 1928.

Mackie, Cal. Cit. 12, 458, 1929.

McDonald, Tex. Com. Agr. R. 20, 28,  
1927.

Marlatt, USDA, FHB, R. f. '27, 32-34.

Marlatt, USDA, FHB, R. f. 1928, 39.

Marlatt, U. S. D. A. Ent. R. f. 1929, 16.

Marlatt & Howard, J. Wash. Acad.  
Sci. 18, 434, 1928.

Pease, Cit. Indus. 8; 8, 14, 1927.

iQuayle, Cal. C. 315, 10-11, 1929.

iQuayle, Cit. Leaves, 9; 8, 1-2, 1929.

Strong, Cal. Cult. 69, 51, 1927.

Thomas, J. Ec. Ent. 20, 544-545, 1927.

Warner, Fla. Month. B. 12, 211, 1928.

Watson, Fla. Dept. Agr. Quar. B. 39;  
3, 48, 1929.

Westmoreland, Fla. Ent. 11, 54, 1928.

———Amer. Nurseryman, 46, 118, 1927.

———Cal. Cit. 13; 8, 277, 1928.

———Cal. Cit. 14, 310, 1929.

———Cal. Cult. 68, 623, 1927.

———Cal. Dept. Agr. Mo. B. 17, 293,  
1928.

———Cal. Dept. Agr. B. 17, 328, 1928.

———Cal. Fruit News, 75; 2029, 3, '27.

———Citrus Indus. 8; 8, 36, 1927.

———Fla. St. Pl. Bd. Mo. B. 12; 1, 11, '27.

———USDA, FHB, SRA, 91, 71-72, '27.

———USDA, PQCA, SRA, 97, 109-  
110, 1928; 98, 6, 1929; 99, 56-57, 1929.

*Anastrepha ludens*—Hearings

McDonald et al., Cit. Ind. 8; 7, 33,  
1927.

*Anastrepha ludens*—Quarantine

Jardine, Flor. Exch. 65, 1205, 1927.

Strong, Cal. Dept. Agr. Mo. B. 17, 65-  
66, 1928.

———Cal. Dept. Agr. Sp. Pub. 85, 99,  
1928.

———Cal. Fruit News, 76; 2042, 21, '27.

*Anastrepha obscura*

Aldrich, P. U. S. N. M., 66; 18, 5, 1925.

*Anastrepha ornata*

Aldrich, P. U. S. N. M. 66; 18, 6-7, 1925.

*Anastrepha schausi*

Aldrich, P. U. S. N. M. 66; 18, 3, 1925.

*Anastrepha serpentina*

Greene, J. Ag. Res. 38, 497-498, 1929.

*Anastrepha* spp.

Greene, Smithson, Misc. Coll. 78; 7,  
98-100, 1926.

*Anastrepha striata*

Greene, J. Ag. Res. 38, 497-498, 1929.

- Anatis quindecimpunctata*  
Felt, N.Y. St. Mus. B. 260, 51, 1925.  
Felt, N. Y. St. Mus. B. 274, 171, 1928.
- Anatrichis picea*  
Blatchley, Can. Ent. 57, 162, 1925.
- Anax*—Keys  
biByers, J. N. Y. Ent. Soc. 35, 68-69, 1927.  
bSeemann, J. Ent. & Zool. 19, 24, 1927.
- Anaxipha exigua* (Bush cricket)  
Allard, Can. Ent. 61, 196-197, 1929.  
Allard, Smithson, R. f., 1928, 582, 1929.
- Anchistrotus buctoni*  
nGoding, J.N.Y. Ent. Soc. 37, 12, 1929.
- Anchomenus decorus*  
bHatch, J. N. Y. Ent. Soc. 34, 247-248, 1926.
- Anchylopera angulifasciana* (Cloverleaf tyer)  
iWehrly, N. Y. C. B. 489, 16-27, 1929.
- Anchylopera mira, tenebrica*  
iHeinrich, P. U. S. N. M. 74; 8, 17-18, 1929.
- Ancistrocerus birenimaculatus*  
Bequaert, Trans. Amer. Ent. Soc. 51, 97-98, 1925.
- Ancistrocerus campestris*  
Bequaert, Trans. Amer. Ent. Soc. 51, 86, 1925.
- Ancistrocerus capra*  
Buckle, Can. Ent. 61, 265-266, 1929.
- Ancistrocerus fulvipes*  
Bequaert, Trans. Amer. Ent. Soc. 51, 80-81, 1925.  
Rau, St. Louis Acad. Sci. Tr. 25, 184-187, 1927.
- Ancistrocerus saecularis*  
Bequaert, Trans. Amer. Ent. Soc. 51, 83-84, 1925.
- Ancistrocerus spp*—North America  
Bequaert, Trans. Amer. Ent. Soc. 51, 57-117, 1925.
- Ancistrocerus unifasciatus*  
Rau, St. Louis Acad. Sci. Tr. 25, 187, 1927.
- Anculopus*—n. gen., foveatus  
Van Dyke, Pan-Pac. Ent. 4, 12-14, 1927.
- Ancylys albafascia*  
iHeinrich, P.U.S.N.M. 74; 8, 19, 1929.
- Ancylys comptana* (Strawberry leaf roller)\*  
Cooley, Mont. B. 170, 29, 1925.  
Cooley, Proc. Mont. Hort. Soc. 28, 101, 1927.  
Dean, Kan. Ent. Com. Bien. R. 10, 33, 1927.
- iDunham, J. Agr. Res. 34, 149-156, '27.  
Forbes, Ill. Nat. Hist. Surv. B. 16, 450, '27.  
French, Mass, Ext. Leaf. 29, rev. 11, '28.  
iFulton & Brunson, Iowa C. 110, 1928, 8 p.
- Jardine, Oreg. Bien. R. 1924-1926, 101, 1926.
- bLewis, J. Ec. Ent. 18, 609-612, 1925.  
Loree, Mich. Sp. B. 182, 28, 1928.  
Macoun & Davis, Can. Dept. Agr. B. 80, (n.s.), 46, 1927.  
Robertson, B. C. Dept. Agr. R. 22, Q21-Q22, 1928.  
Scholl & Stephens, Tex. Dept. Agr. B. 84, 18-19, 1925.  
Sears, Productive small Fruit Cult. ed. 2, 118, 1925.  
Smith, La. Ext. C. 113, 31-32, 1928.
- Ancyclus nubeculana* (Apple leaf sewer)  
iBrittain, N. S. Dept. Nat. Resource B. 12, 23-24, 1927.
- Ancylostoma braziliense* and creeping eruption  
Dove & White, J. Ec. Ent. 20, 247, '27.  
Kirby-Smith, Dove & White, Arch. Dermatol. 13, 137-173, 1926.  
Amer. Med. Assoc. J. 86: 17, 1287, '26.
- Ancylostoma caninum* and dermatitis  
White & Dove, Arch. Dermatol. 20, 191-200, 1929.
- Andrena abjecta*  
nCockerell, J. N. Y. Ent. Soc. 37, 445, '29.
- Andrena champanae*  
Viereck, Proc. Cal. Acad. Sci. ser. 4, 15, 407-408, 1926.
- Andrena claremontei*  
niViereck, J. Ent. & Zool. 18; 1, 2-4, '26.
- Andrena coactifera*  
nViereck, Proc. Cal. Acad. Sci. ser. 4, 15, 399-400, 1926.
- Andrena cuneilabris*  
nViereck, Proc. Cal. Acad. Sci. Ser. 4, 15, 400-402, 1926.

- Andrena heterura**  
nCockerell, J. N. Y. Ent. Soc. 37, 445-446, 1929.
- Andrena enceliae**  
nCockerell, Pan-Pac. Ent. 4, 43, 1927.
- Andrena indianensis**  
nCockerell, Ann. Ent. Soc. Amer. 22, 757-758, 1929.
- Andrena innominata, marina**  
nViereck, Proc. Cal. Acad. Sci. Ser. 4, 404-406, 1926.
- Andrena obscura**  
Cockerell, Ann. Ent. Soc. Amer. 22, 757, 1929.
- Andrena platyrhina**  
nCockerell, J. N. Y. Ent. Soc. 37, 446-447, 1929.
- Andrena prelexa**  
Sanders, Md. B. 298, 196-197, 1928.
- Andrena prunorum**  
Hicks, Amer. Nat. 60, 200, 1926.
- Andrena regularis**  
Felt, N. Y. St. Mus. B. 274, 172, 1928.
- Andrena rodecki**  
nCockerell, Ann. Ent. Soc. Amer. 22, 755-756, 1929.
- Andrena seneciophila**  
nCockerell, Psyche, 35, 62, 1928.
- Andrena shasta**  
nViereck, Proc. Cal. Acad. Sci. Ser. 4, 15, 402-403, 1926.
- Andrena sinaloa**  
nViereck, Proc. Cal. Acad. Sci. Ser. 4, 15, 403-404, 1926.
- Andrena speculifera**  
nCockerell, J. N. Y. Ent. Soc. 37, 444-445, 1929.
- Andrena stenosoma**  
nViereck, Trans. Amer. Ent. Soc. 51, 135-136, 1925.
- Andrena subilicornis**  
nViereck, J. Ent. & Zool. 18; 1, 4-5, 1926.
- Andrena tardula**  
nCockerell, J. N. Y. Ent. Soc. 37, 447-448, 1929.
- Andrena viridibasis**  
nCockerell, J. N. Y. Ent. Soc. 37, 444, 1929.
- Andrenosoma acunai, crassa**  
nBromley, Ann. Ent. Soc. Amer. 12, 285, 286, 1929.
- Andrenosoma igneum**  
nBromley, Psyche, 36, 46-47, 1929.
- Andrenosoma quadrimaculata**  
nBromley, Ann. Ent. Soc. Amer. 22, 285, 1929.
- Andricus albobalani** 68, **biconicus** 68-70, **chrysobalani** 71-72  
nWeld, P.U.S.N.M. 68; 10, 1926.
- Andricus cornigerus** (Horned oak gall)  
Harned, Miss. St. Plt. Bd. Quar. B. 8; 4, 17-19, 1929.
- Andricus coronus**  
Felt, N.Y. St. Mus. B. 274, 169-170, '28.
- Andricus deciduatus, fimbrialis**  
nWeld, P.U.S.N.M. 68; art. 10, 72-75, '26.
- Andricus pomiformis**  
iEssig, Insects of West. No. Amer. 1926, 804.
- Andricus punctatus** (Oak knot gall)  
iHarned, Miss. St. Pt. Bd. Quar. B. 8; 4, 17-19, 1929.  
Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 52, 1926.
- Andricus robustus** 81-82, **rugatus** 82-83, **stellaris** 84, **toumeyii** 85-86, **tubalis** 86, **tubularius** 87  
nWeld, P.U.S.N.M. 68, art. 10, 1926.
- Aneflormorpha subpubescens**  
Champlain, Kirk & Knull, Ent. News 36, 106, 1925.
- Anemosella polingalis**  
nBarnes & Benjamin, Ins. Insc. Mens. 14; 1-2, 8, 1926.
- Anepeorus n. gen., rusticus**  
nMcDunnough, Can. Ent. 57, 190, 1925.
- Aneristus ceroplastae**  
iDozier, Porto Rico Dept. Agr. J. 9, 365, 1925.
- Aneristus ceroplastae, oculatipennis**  
iSmith & Compere, Cal. Univ. Pubs. in Ent. 4, 246-247, 1928.
- Angitia albertae, incipiens, triops**  
niWalley, Can. Ent. 61, 191-193, 1929.
- Angitia spp.—Key**  
Viereck, Can. Ent. 57, 227-228, 1925.
- Angitia (Diocetes) unicus**  
nViereck, Can. Ent. 58, 182, 1926.

- \**Angoumois grain moth*, *see* *Sitotroga cerealella*
- \**Angular-winged katydid*, *see* *Microcentrum retinerve*
- Anicius*—*n. gen.*, *dolius*  
*n*Chamberlin, Cal. Acad. Sci. Proc. ser. 4, 14, 131-132, 1925.
- Anilloferonia n. gen.*, *testacea*  
*n*Van Dyke, Pan-Pac. Ent. 2, 115-116, '26.
- Anisandrus pyri*  
*i*Britain, N. S. Dept. Nat. Resource B. 12, 41-42, 1927.
- Anisepyrus cubensis*, *pulchellus*  
*n*Fouts, Proc. Ent. Soc. Wash. 30, 125-126, 1928.
- Anisobas bicolor*, *nearcticus*, *texensis*  
*n*Cushman, P. U. S. N. M. 67, Art. 23, 1-3, 1926.
- Anisodes vuha*  
*n*Schaus, Proc. Ent. Soc. Wash. 31, 54, '29.
- Anisolabis annulipes*, *see* *Euborellia annulipes*
- Anisolabis maritima* (*Maritime earwig*)  
*i*Buckell, Proc. Ent. Soc. B. C. 26, 13-15, 1929.  
 Buckell, Proc. Ent. Soc. B. C. 22, 35, '25.  
*b*Krafka, Ann. Ent. Soc. Amer. 19, 281-283, 1926.  
*i*Nakahara & Nakahara, Bklyn. Ent. Soc. B. 24, 161-163, 1929.  
 Spencer, Can. Ent. 58, 183-184, 1926.  
 Spencer, Pac. Coast Ent. Soc. Proc. 2, 65-66, 1926.
- Anisolabis tegminata*  
*n*Caudell, Iowa Univ. Stud. 12: 3, 4-5, '27.
- Anisoptera spp.*—*Key*  
*b*Byers, J. N. Y. Ent. Soc. 35, 65-74, '27.  
*b*Seemann, J. Ent. & Zool. 19, 17-18, '27.
- Anisostena californica*  
*n*Van Dyke, Pan-Pac. Ent. 1, 170-171, '25.
- Anisota manitobensis*  
*i*Brodie, Can. Ent. 61, 98-100, 1929.
- Anisota rubicunda* (*Green-striped maple worm*)\*  
*i*Peirson, Me. For. Serv. B. 5, 82-83, '27.
- Anisota senatoria* (*Orange-striped oak worm*)\*  
 Caesar & Ross, Ont. Ent. Soc. R. 58, 24, 1928.
- Hutchings, Quebec Soc. Protec. Pl. R. 18, 116, 1926.
- Anisota sp.*  
 Petch & Armstrong, Quebec Soc. Protec. Plants R. 17, 75, 1925.
- Anisotoma canadensis*  
*n*Brown, Can. Ent. 60, 141-142, 1928.
- Anisotoma fusciclava*  
*n*Fall, Can. Ent. 57, 311, 1925.
- Anisotoma oklahomensis*  
*n*Brown, Can. Ent. 60, 142-143, 1928.
- Anisotoma puritana*  
*n*Fall, Can. Ent. 57, 310-311, 1925.
- Ankothrips n. gen.*, *zuccae*  
*n*Moulton, Trans. Amer. Ent. Soc. 52, 119-121, 1926.
- Ankothrips aequalis*, *gracilis*  
*n*Moulton, Pan-Pac. Ent. 3; 1, 19-21, '26.
- Ankothrips vandykei*  
*n*Moulton, Pan-Pac. Ent. 5, 91-92, 1928.
- Anobiidae*  
*i*Boving, Proc. Ent. Soc. Wash. 29, 54-62, 1927.
- Anoecia corni*, *querci*  
*i*Cutright, Ohio B. 387, 184-190, 1925.
- Anogdus luggeri*  
*n*Hatch, Minn. Tech. B. 48, 17, 1927.
- Anogmoidea n. gen.*, *joulei*  
*n*Girault, Ins. Insc. Mens. 14, 62-63, '26.
- Anomala innubia*  
*i*Hayes, Kans. Tech. B. 16, 82-89, 1925.
- Anomala kansana*  
*i*Hayes, Ann. Ent. Soc. Amer. 20, 193-206, 1927.
- Anomala orientalis* (*Asiatic beetle*)\*  
 Agee, Internat. Soc. Sugar Cane Technol. Proc. 2d. Confer. 73-74, 1927.  
 Britton, Conn. B. Immed. Inform. 52, Dec. 1925, 4 p.  
 Britton, J. Ec. Ent. 19, 540-543, 1926.  
*i*Britton & Zappe, Conn. B. 275, 309-312, 1926.  
*b*Britton, Conn. B. 285, 252-257, 1927.  
 Britton, J. Ec. Ent. 20, 359-361, 1927.  
 Britton & Johnson, Conn. B. 294, 288-291, 1928.
- Downes, Proc. Ent. Soc. B. C. 25, 17-18, 1928.
- Felt, J. Ec. Ent. 20, 64, 1927.

**Anomala orientalis (Asiatic beetle)\***  
*Cont'd.*

ilhbFelt, N. Y. St. Mus. B. 274, 139-142, 1928.

Friend, J. Ec. Ent. 20, 362-364, 1927.

ilbFriend, Conn. B. 304, 585-661, 1929.

Friend, J. Ec. Ent. 22, 323, 1929.

Greeves & Carpenter, Tree Talk 8; 1, 29, 1926.

Hadley, J. Ec. Ent. 22, 469-470, 1929.

iHallock, J. Ec. Ent. 22, 295-297, 1929.

Herrick, N. Y. St. Hort. Soc. Proc. 74, 15, 1929.

Howard, U. S. D. A. Ent. R. f. 1927, 8.

Johnson, Conn. B. 285, 257-264, 1927.

Johnson, Conn. B. 305, 743-744, 1929.

Johnson, J. Ec. Ent. 20, 373-376, 1927.

Leach, Garden & Home builder, 47, 388-406, 1928.

Linz, Flor. Exch. 72; 10, 11, 1929.

ilbLipp, J. Ec. Ent. 20, 801-805, 1927.

iOtan, Philippine Agr. Rev. 18, 402, 1925.

Pemberton, La. Plant. & Sugar Mfg. Co. Ref. Bk. Sugar Ind. of the World, 5; 5, 44, 1927.

iSlate, Conn. B. 274, 195, 1926.

Slate, Conn. B. 291, 93-94, 1927.

Slate, Conn. B. 298, 118, 1928.

Smith, N. J. Dept. Agr. R. 12, 100-102, 1927.

Smith, N. J. Dept. Agr. R. 13, 117-124, 1929.

—U. S. D. A., P. Q. C. A., S. R. A. 98: 3, 8-18, 1929.

**Anomala orientalis—Quarantine**

Britton, Conn. B. Immed. Inform. 53, 1926, 2 p.

—Flor. Rev. 63; 1622, 26, 1928.

U.S.D.A., P.Q.C.A., 66, 1929, 7 p.

**Anomalothrips amygdali**

nMorgan, Proc. Ent. Soc. Wash. 31, 5-6, 1929.

**Anomiopsyllus californicus**

iFox, Pan-Pac. Ent. 2, 183-184, 1926.

**Anomiopsyllus falsicalifornicus**

nFox, Ent. News 40, 218, 1929.

**Anomis editrix**

Barnes & Benjamin, Ent. News 37, 81, 1926.

**Anomis erosa**

Barnes & Benjamin, Ent. News 37, 80, 1926.

Bottimer, J. Agr. Res. 33, 800, 1926.

**Anomis exacta**

Bottimer, J. Agr. Res. 33, 800, 1926.

**Anomis flava**

Barnes & Benjamin, Ent. News 37, 79-80, 1926.

**Anopheles gen.**

Freeborn, Cal. Univ. Tech. B. Ent. 3, 445-447, 1926.

**Anopheles—Bionomics**

Balfour, Amer. J. Hyg. 8, 68-76, 1928.

biBoyd, Amer. J. Hyg. 7, 264-275, 1927.

biBoyd, Amer. J. Hyg. 9, 346-370, 1929.

iBoyd & Foot, J. Preventive Med. 2; 3, 219-242, 1928.

bBoyd & Weathersbee, Amer. J. Hyg. 9, 682-694, 1929.

**Anopheles—Brazil**

iDavis, Amer. J. Hyg. 6, Mar. Suppl. 1-35, 1926.

**Anopheles—Breeding places**

iKliger, J. Hyg. 23, 298-307, 1924.

**Anopheles—Building regulations**

Le Prince, So. Med. J. 18, 465, 1925.

**Anopheles—California**

ibHermes, Internat. Cong. Ent. 4, Tr. 2, 708-721, 1929.

**Anopheles—Density**

ibKing, So. Med. J. 21, 763-767, 1928.

**Anopheles—Ovarian follicle**

Davis, Am. J. Hyg. 8, 467, 1928.

**Anopheles aitkenii**

Dyar & Shannon, Ins. Insc. Mens. 13, 85-86, 1925.

**Anopheles albimanus**

Dunn, Amer. Jr. Trop. Med. 9, 493-494, 1929.

Earle, Porto Rico Health Rev. 1, 12, '25.

iHoffman, Am. J. Trop. Med. 6, 377-379, 1926.

Mandry, P. R. Health Rev. 3; 7, 279, '28.

Pastor, P. R. Health Rev. 2: 9, 19-24, 1927.

ibShropshire & Zetek, Am. J. Trop. Med. 7, 331-338, 1927.

—Porto Rico Health Rev. 2: 6, 15-18, 1926; 2: 10, 27-34, 1927; 3: 1, 27-

- 27-28, 1927; P. R. Pub. Health 3: 7, 279-286, 1928; P. R. Pub. Health Rev. 3, 9, 376, 1928.
- Anopheles albimanus—Blood feeding**  
P. R. Health Rev. 3: 9, 376-385, 1928.
- Anopheles albimanus—Flight**  
Pastor, P. R. Health Rev. 2; 10, 27-29, 1928.
- Anopheles albitarsis**  
ibDavis, Am. J. Hyg. 8, 542-547, 1928.
- Anopheles and impounded water**  
Carter, So. Med. J. 17, 575-578, 1924.  
Smillie, So. Med. J. 20; 6, 475-477, 1927.
- Anopheles and malaria**  
Adams, Amer. Fr. Grow. Mag. 49; 4, 21, 1929.  
Barber, N. Orleans, Med. & Surg. J. 77; 1, 16-20, 1924.  
Barber et al., U. S. Pub. Health R. 42, 2487-2502, 1927.  
iBarber, U. S. Pub. Health R. 44; 10, 523-528, 1300-1315, 1929.  
Barber, So. Med. J. 21; 9, 737-738, 1928.  
bBarber, Komp & Hayne, U. S. Pub. Health R. 42, 2487-2502, 1927.  
bBarber, et al, United Fruit Co. Med. Dept. R. 17, 48, 1928.  
biBorden, Military Surg. 59, 452-469, 1926.  
biBoyd, Amer. J. Hyg. Monog. Ser. 5, 30-49, 1926.  
Boyd, So. Med. J. 20; 6, 462-464, 1927.  
ibBoyd & Aris, Amer. J. Trop. Med. 9, 366-399, 1929.  
iButler & Peterson, U. S. Naval Med. B. 25, 278-288, 1927.  
iByrd, Nation's Health 6, 319, 1924.  
Chamberlain, Panama Canal Health R. f, 1927, 17-21.  
Chamberlain & Curry, Pan. Canal Zone Health Dept. R. f, 1925, 13-21, 1926.  
Chandler, Animal parasites, Ed. 3, 438, 1925.  
Clarkson, So. Med. J. 21; 9, 773, 1928.  
Dapper, Ill. Health News, 11; 267, '25.  
iDarling, So. Med. J. 18, 446-449, 1925.  
bDarling, So. Med. J. 18, 452-458, 1925.  
Darling, Amer. J. Trop. Med. 6, 167-179, 1926.  
Dickie, Cal. St. Bd. Health, Bien. R. 29, 27, 1926.  
Dunham, Military Surg. 62, 33-38, 1928.  
Earle, Sugar 28, 384-385, 1926.  
Ferguson, Tr. Ill. St. Acad. Sci. 17, 279-293, 1925.  
Garton, U. S. Naval Med. B. 26, 747-754, 1928.  
bHackett, So. Med. J. 22, 367-371, 1929.  
Haseman & Sullivan, Mo. B. 236, 51, 1926.  
iHermes, Nation's Health 8, 539, 1926.  
Howard, U. S. D. A. Ent. R. f. 1926, 21-22.  
Howard, N. J. Mos. Exterm. Assoc. Proc. 15, 17-18, 1928; 16, 20-23, 1929.  
King, So. Med. J. 18; 6, 444-446, 1925.  
Kligler, J. Prevent. Med. 1; 2, 149-183, 1926.  
Kligler, Am. J. Trop. Med. 8, 183-198, 1928.  
bKligler & Leibman, J. Prevent. Med. 2; 5, 433-440, 1928.  
LePrince, Internat. Confer. Health Problems Trop. Amer. Proc. 1, 1924, 157-164.  
Mandry, P. R. Health Rev. 3; 7, 283, 1928.  
Meleney, Bishop & Roberts, So. Med. J. 22, 385-394, 1929.  
Parsons, Mil. Surg. 63, 816-829, 1928.  
Robbins, U. S. Naval Med. B. 26, 451-461, 1928.  
iRockefeller, Found. Internat. Health Bd. R. 11, 101-110, 1925.  
Root, Internat. Confer. Health Problems Trop. Amer. Proc. 1924, p. 149-156.  
bSimmons, Mil. Surg. 64, 706-911, 1929.  
iSmillie, Amer. J. Hyg. 7; 1, 40-72, 1927.  
iStorer, Jour. Mammalogy, 7 (2); 85-90, 1926.  
iTiedeman, Jr. Preven. Med. 1, 205-254, 1927.  
——Porto Rico Com. Health R. 1926-27, 95, 1929.  
——Porto Rico Health Rev. 1; 5,

- 31, 33, 1925; 1, 9, 32, 1926; 2; 12, 25-31, 1927; 3; 1, 68-70, 1927; 3, 325-329, 1928.
- Anopheles and Malaria—Survey 1928**  
Simmons, Military Surg. 64, 906-911, 1929.
- Anopheles and Paris green**  
Dolloff, Pub. Health R. 44, 2588-2594, 1929.  
Griffitts, Pub. H. R. 42, 2701-2705, 1927.  
LePrince & Johnson, Pub. Works 60, 352-354, 1929.
- Anopheles & Sir Ronald Ross**  
Mead, Hygeia 6, 340-342, 1928.
- Anopheles & The railroads**  
iLayng, Hygeia 5, 351-352, Jl. 1927.
- Anopheles & top minnows**  
Hermes, So. Med. J. 21; 9, 761-762, 1928.
- Anopheles & water deposits**  
Pastor, P. R. Health Rev. 2; 12, 25-31, 1927.
- Anopheles & water hyacinths**  
——Nation's Health, 8, 129, 1926.
- Anopheles annulipes**  
Barber & Hayne, Pub. Health R. 40, 2557-2562, 1925.
- Anopheles (Nyssorhynchus) argyritarsis**  
Dunn, Amer. Jr. Trop. Med. 9, 494, 1929.  
iRoot, Amer. J. Hyg. 6, 700, 1926.
- Anopheles atropos**  
Griffitts, Pub. Health R. 42, 1903-1905, 1927.  
bKomp, Ins. Insc. Mens. 14, 168-172, '27.
- Anopheles bathanus**  
nbDyar & Curry, Am. J. Trop. Med. 8, 243-248, 1928.
- Anopheles bellator**  
Dyar, Ins. Insc. Mens. 13, 27, 1925.
- Anopheles celidopus**  
nDyar & Shannon, J. Wash. Acad. Sci. 15, 41, 1925.
- Anopheles crucians**  
Beyer, La. St. Bd. Health Quar. B. 16, 148-153, 1925.  
Darling, So. Med. J. 18; 6, 452-457, '25.  
iRussell, Amer. J. Hyg. 5, 149-174, 1925.
- Anopheles cruzi**  
Davis, Am. J. Hyg. 6, 123, 1926.  
Dyar, Ins. Insc. Mens. 13, 26, 1925.
- Anopheles fluminensis**  
nRoot, Am. J. Hyg. 7, 602, 1927.
- Anopheles elutus**  
Kligler & Liebman, J. Preven. Med. 2; 5, 435, 1928.
- Anopheles grabhamii**  
Hoffman, Am. J. Trop. Med. 6, 377-9, 1926.  
Pastor, Porto Rico Health Rev. 2; 7, 30-33, 1927.
- Anopheles grabhamii and malaria**  
——Porto Rico Health Rev. 2; 8, 23-33, 1927; 2; 11, 29-37, 1927.
- Anopheles grabhamii—Blood feeding**  
——Porto Rico Health Rev. 3; 9, 376-385, 1928.
- Anopheles hyrcanus**  
Meleney, J. Parasitol. 13, 284, 1927.
- Anopheles larvae**  
biBarber, Pub. Health R. 43, 1494-1510, 1927.  
bCoggeshall, Am. J. Hyg. 6, 556-569, '26.  
Komp, So. Med. J. 21, 760-761, 1928.  
Zetck, Am. J. Trop. Med. 7, 247-249, 1927.
- Anopheles ludlowi**  
Darling, Amer. J. Trop. Med. 6, 169, 1926.
- Anopheles maculipennis (Malarial mosquito)\***  
Dyar, P. U. S. N. M. 75; 23, 8, 1920.  
Felt, N. Y. St. Mus. B. 274, 27-28, 1928.  
iFreeborn, Cal. Univ. Pub. Tech. B. Ent. 3, 448-451, 1926.  
ibFreeborn, Cal. Univ. Pub. Ent. B. 3, 339-347, 1929.  
Hearle, Nat. Res. Council Canada R. 17, 46, 1926.  
Hermes, J. Ec. Ent. 19, 322, 1926.  
Hermes, J. Ec. Ent. 22, 49, 1929.  
iSteele, Lit. Digest 85; 1824, 29, 1925.  
ibSwellengrebel, Amer. J. Hyg. 10, 419-431, 1929.  
Twinn, Can. Ent. 58, 110, 1926.
- Anopheles (Anopheles) mediopunctatus**  
Root, Am. J. Hyg. 7, 601, 1927.

**Anopheles (Stethomyia) nimbus**

Chamberlain, Panama Canal Health  
R. f, 1927, 21.

**Anopheles—Nyssorhynchus group**

ibRoot, Amer. J. Hyg. 6, 684-715, 1926.

bRoot, Internat. Cong. Ent. 4, Tr. 2, 316-  
321, 1929.

**Anopheles—Proportion of sexes**

Barber, Komp & Hayne, Pub. Health  
R. 40, 105-110, 1925.

**Anopheles pseudopunctipennis**

ibDavis, Amer. J. Trop. Med. 7, 167-176,  
1927.

Davis, Amer. J. Hyg. 8; 3, 467-475, '29.  
bDavis & Shannon, Amer. J. Trop. Med.  
8, 443-447, 1928.

Dunn, Amer. J. Trop. Med. 9, 494-495,  
1929.

Freeborn, Cal. Univ. Tech. B. Ent. 3,  
454-456, 1926.

Shannon, J. Wash. Acad. Sci. 18, 435,  
1928.

**Anopheles punctimaculata**

Dunn, Amer. J. Trop. Med. 9, 495, '29.

**Anopheles punctipennis**

Darling, So. Med. J. 18; 6, 452-457, '25.

iFelt, N. Y. St. Mus. B. 274, 27-28, 1928.

iFreeborn, Cal. Univ. Tech. B. Ent. 3,  
451-453, 1926.

iHearle, Nat. Res. Council Canada R.  
17, 44-45, 1926.

iKing, Amer. J. Hyg. 10, 565-579, 1929.

Marcovitch, Tenn. B. 139, 36-37, 1928.

Russell, Amer. J. Hyg. 5, 149-174, 1925.

St. John, Amer. J. Trop. Med. 8, 305-  
323, 1928.

**Anopheles quadrimaculatus**

biBoyd, Amer. J. Hyg. 7, 264-275, 1927.

Boyd & Foot, J. Preventive Med. 2; 3,  
242, 1928.

iChandler, Animal parasites Ed. 3, 441,  
1925.

Darling, So. Med. J. 18; 6, 452-457, '25.

Dunham, Military Surg. 62, 33-38, 1928.

Fernald, Applied Ent. ed. 2, 310-312,  
1926.

Ferrell, So. Med. J. 18, 432-434, 1925.

Grant, So. Med. J. 20; 6, 490-492, 1927.

Jordan, Sci. Amer. 134, 397, 1926.

iKing, Amer. J. Hyg. 10, 565-579, 1929.

iKing & Bradley, U. S. D. A., Dept. C.  
367, 1926, 15 p.

ibKumm, Amer. J. Trop. Med. 9, 67-77,  
1929.

Puckett, So. Med. J. 20; 6, 487, 1927.

iRussell, Amer. Jour. Hyg. 5, 149-174,  
1925.

Sappington, So. Med. J. 20; 6, 488-490,  
1927.

Williams, Proc. N. J. Mos. Exterm.  
Assoc. 12, 33-34, 1925.

Williams, So. Med. J. 21; 9, 735-737,  
1928.

Williams, U. S. Pub. H. R. 44, 2001-  
2004, 1929.

**Anopheles rondani—Argentine Republic**

Davis & Shannon, Am. J. Hyg. 8, 448-  
456, 1928.

**Anopheles sergenti**

Kligler & Liebman, J. Preventive Med.  
2; 5, 435, 1928.

**Anopheles—spp.**

Barber & Komp, Pub. Health R. 44,  
2457-2462, 1929.

Boyd, Amer. J. Hyg. 9, 346-370, 1929.

Boyd & Weathersbee, Amer. J. Hyg.  
9, 682-694, 1929.

Curry, Am. J. Trop. Med. 5, 1-16, 1925.

Davis, Am. J. Hyg. 6, My. Supp. '26, 22 p.

Dyar, Ins. Insc. Mens. 13, 186, 1925.

Freeborn, Cal. Univ. Tech. B. 3; 6,  
447, 1926.

Freeborn, Cal. Univ. Pub. Ent. B. 3,  
445-447, 1926.

Manalang, Philippine J. Sci. 38, 431-  
434, 1929.

ibRoot, Amer. J. Hyg. Monog. Ser. 5,  
50-110, 1926.

ibRoot, Amer. J. Hyg. 7, 599-605, 1927.  
U. S. Pub. H. Ser. Amer. J. Pharm.  
100, 389-392, 1928.

**Anopheles spp. and Sugar-cane**

P. R. Health Rev. 2; 6, 15-18, 1926.

**Anopheles and the aeroplane**

ibWilliams & Cook, Pub. H. R. 42, 459-  
480, 1927.

**Anopheles spp.—Emergence**

Bradley, Am. J. Trop. Med. 6, 283-  
297, 1926.



- Anopheles* spp.—Hawaii  
 Hoffman, J. Wash. Acad. Sci. 17, 175, 1927.
- Anopheles* spp.—Identification of larvae  
 biRussell, Am. J. Hyg. 5, 149-174, 1925.
- Anopheles* spp. Surveys  
 Barber, Komp & Clark, United Fruit Co. Med. Dept. R. 13, 219-221, 1925.
- Anopheles* spp.—Tropics  
 bClark, United Fruit Co. Med. Dept. R. 15, 45-47, 1926.
- Anopheles* spp.—Water hyacinth  
 bBarber & Hayne, Pub. Health R. 40, 2557-2562, 1925.
- Anopheles super-pictus*  
 Kligler & Liebman, J. Preven. Med. 2; 5, 435, 1928.
- Anopheles tarsimaculata*  
 ibDavis, Am. J. Hyg. 8, 462-466, 549-554, 1928-1929.  
 Dunn, Amer. Jr. Trop. Med. 9, 494, 1929.  
 ibShropshire, Am. J. Trop. Med. 7, 331-338, 1927.
- Anopheles vestitipennis*  
 Johnson, Am. J. Trop. Med. 6, 153-155, 1926.  
 Pastor, P. R. Health Rev. 2; 8, 28-52, 1927.  
 Pastor, P. R. Health Rev. 2; 11, 30-37, 1927.
- Anopheles walkeri*  
 bKomp, Ins. Insc. Mens. 14, 172-176, '26.
- Anophthalmus engelhardti*, hubbardi  
 iBarber, J. Wash. Acad. Sci. 18, 196, 1928.
- Anophthalmus* sp.—Parasites  
 Barber, J. Wash. Acad. Sci. 19, 49, 1929.
- Anoplum (Elaphidion) inerme*  
 Watson, Fla. B. 183, 399, 1926.
- Anoplus confraternus*  
 nBanks, Can. Ent. 58, 201, 1926.
- Anoplognathus boisduvali* (Christmas beetle)  
 iJarvis, Internat. Cong. Ent. 4, Tr. 2, 29, 1929.
- Anoplotermes*, bolivianus 46-47, clypeatus 47-48, distans 48-49, distinctus 49, grandifrons 50-51, howardi 51-52, indistinctus 52-53, linearis 53-54, proximus 54-55, rotundus 46-57  
 nSnyder, P.U.S.N.M. 68; 14, 1926.
- Anoplotermes* spp.—Key  
 Snyder, P.U.S.N.M. 68; 14, 45-57, 1926.
- Anoplura* collection in U. S. Nat. Mus.  
 Ewing, Proc. Ent. Soc. Wash. 28, 70b, 1926.
- Anosia plexippus*, see *Danaus archippus*
- Ant cricket*, see *Myrmecophila oregonensis*
- Ant lions*, see *Myrmeleonidae*
- Antapлага muricolor*, pseudovarra, simplicia  
 nDyar, Ins. Insc. Mens. 14, 184, 1927.
- Anteoninae*—Parasitic  
 iFenton, P.U.S.N.M. 72: 8, 1927, 16 p.
- Anteos* genus  
 iKlotts, Bklyn. Ent. Soc. B. 24, 134-142, 1929.
- Anteris reticulata*  
 nFouts, Proc. Ent. Soc. Wash. 28, 178-179, 1926.
- Anthaxia bifoveata*  
 nFisher, P.U.S.N.M. 65; 9, 168, 1925.
- Anthaxia pseudotsugae*  
 nChamberlin, Pan-Pac. Ent. 5, 95, 1928.
- Anthemoessa abrupta*  
 bRobertson, Psyche 35, 56, 1928.
- Anthidiellum notatum*  
 nSchwarz, Amer. Mus. Nov. 226, 18-19, 1926.
- Anthidiinae*  
 Custer & Hicks, Biol. B. 52, 258-277, 1927.  
 iIsensee, Ann. Carnegie Mus. 17, 371-384, 1927.  
 iSchwarz, J. N. Y. Ent. Soc. 36, 369-415, 1928.  
 Schwarz, Can. Ent. 60, 212-217, 1928.  
 Schwarz, Amer. Mus. Novit. 226, 1926, 25 p.
- Anthidium* spp.  
 nCockerell, Proc. Cal. Acad. Sci. Ser. 4, 14; 15, 349-361, 1925.
- Anthidium clypeodentatum*, cockerelli  
 Schwarz, J. N. Y. Ent. Soc. 36, 380, 386, 1928.
- Anthidium collectum*  
 Hicks, Can. Ent. 61, 84, 1929.

***Anthidium mormorum***

Hicks, Ent. News 40, 105-110, 1929

***Anthidium palliventre***

Hicks, Pan-Pac. Ent. 5, 51-52, 1928.

***Anthidium porterae***

Custer &amp; Hicks, Biol. B. 52, 258-267, 1927.

***Anthidium* sp.—Parasites**

bCuster, Ent. News 39, 123-125, 1928

***Anthidium variegatipes***

nCockerell, P.U.S.N.M. 71: 12, 1, 1927.

***Anthocharis dammersi***

niComstock, So. Cal. Acad. Sci. B. 28, 32-33, 1929.

***Anthocoptes platynotus***

Miller, Ohio B. 386, 164, 1925.

***Anthocoridae*—Alberta, Canada**

Knight, Can. Ent. 57, 181-182, 1925.

***Anthonomus aeneotinctus***

Ryan, Cal. Cult. 72, 67, 1929.

Ryan, Calif. Dept. Agr. Mo. B. 18, 246, 1929.

Wolff, Cal. Cult. 71, 643, 1928.

***Anthonomus amaguensis***

niCockerell, P. U. S. N. M. 68, Art. 5, 6-7, 1925.

***Anthonomus australis***

nBlatchley, J. N. Y. Ent. Soc. 33, 98, 1925.

***Anthonomus bicorostis***

nBlatchley, J. N. Y. Ent. Soc. 33, 97, 1925.

***Anthonomus eugenii* (Pepper weevil)\***

Merrill, Cal. R. f. 1927-28, 69, 1929.

Merrill, Cal. R. f. 1928-29, 72, 1930.

Los Angeles Co. Hort. Com. R. f. 1929, 21.

**†*Anthonomus grandis* (Boll weevil)\***

Ames, Miss. C. 54 (C. 51 rev.) 1924, 12 p.

Ames, Miss. R. 38, 35, 1925.

iArmstrong, Moreland &amp; Gaines, S. C. B. 223, 1925, 64 p.

Barre, S. C. Clemson Coll. Wkly News Notes 13; 51, 1925.

Barre, S. C. R. 38, 10-20, 1925.

Barre, S. C. R. 39, 7, 33, 1926.

Barre, S. C. R. 42, 57-58, 1929.

Becker, Commerce &amp; Finance 14, 103, Jan. 14, 1925.

Berly, S. C. C. 32, 17, 1924.

iBieberdorf, Proc. Okla. Acad. Sci. 7, 29-34, 1928.

Bishop, Cotton &amp; Cotton Oil News, 30-32; 3, 1929.

Brown, Ga. R. 39, 124-125, 1927.

Byars, Clemson Coll., S. C. Ext. Infor. Card 32, Sept., 1924.

Camp, Fla. R. f. 1926, 40R-41R, 1926.

Coad and Gaines, U. S. D. A. Leaf, 37, 1929, 4 p.

Coad &amp; Maloney, Commerce &amp; Finance 14, 93, 1925.

Connor, Okla. Ext. C. 213, 29, 1925.

iDickson, Sat. Eve. Post, 198, 26, May 1, 1926.

iDumbell et al, Problem of cotton boll weevil, N. Y., 1925, 51 p.

Fenton &amp; Dunnam, J. Ec. Ent. 20, 327-336, 1927.

ibFenton &amp; Dunnam, J. Agr. Res. 36, 135-149, 1928.

iFenton &amp; Dunnam, U. S. D. A. Tech. B. 112, 1929, 75 p.

Ferris, Miss. St. Pl. Bd., Quar. B. 4; 4, 5, 1925.

Fooshe, Textile World 74, 443-444, 1928.

Fries, Indus. &amp; Engin. Chem. 20, 1079-80, 1928.

iGapen, Better Crops 4: 1, 6-7, 1925.

iGehauf, J. Ec. Ent. 19, 593-599, 1926.

Gray, Ark. B. 215, 39, 1926.

iGray, Ark. B. 221, 34, 1927.

Greenbaum, Amer. J. Pharm. 99. 1, 10-12, 1927.

Grimes, Miss. St. Plt. Bd. Quar. B. 8; 4, 3-4, 1929.

Grossman, Fla. P. B. 405, 2 p.

Hinds, La. R. f. 1924, 18-23, 1925.

iHinds, J. Ec. Ent. 19, 112-121, 1926.

Hinds, J. Ec. Ent. 19, 599-600, 1926.

Hinds, La. R. f. 1926, 101-103.

Hinds, Internat. Cong. Ent. 4, Tr. 2, 175-180, 1929.

Hough, Sci. Amer. 141, 127, 1929.

Howard, U. S. D. A. Ent. R. f. 1925, 24-25; R. f. 1926, 19-20.

Isely, Ark. Ext. C. 187, 1925, 2 p.

iIsely, Ark. Ext. C. 218, 1926, 2 p.

‡*Anthonomus grandis* Cont'd

- Isely, Ark. B. 231, 48, 1928.  
 iLatham, Farm and Fireside 52: 8, 35, 1928.  
 Lathrop, S. C. Clemson Coll. Wkly. News Notes 13; 48, 1925.  
 Leiby & Harris, N. C. Dept. Agr. B. March, 1924, 17 p.  
 Long, S. C. Ext. C. 95, 1928, 14 p.  
 Maheux, Quebec Mins. Agr. R. 1927-28, 191, 1928.  
 Maloney, Textile World 69, 877-878, Feb. 6, 1926.  
 Marlatt, U.S.D.A. Ent. R. f. 1928, 23-25.  
 iMarlatt, Nat. Republic 17; 7, 5-6, 1929.  
 Masterson, Farm & Ranch 44; 23, 21, 1925.  
 Mills, J. Ec. Ent. 19, 601-602, 1926.  
 Morrill, J. Ec. Ent. 18, 715, 1925.  
 iMurphy & Sanborn, Okla. Ext. C. 256, 1929, 6 p.  
 Nat. Boll Weevil Control Assoc., Valley Farm. & Citrus Grow. 3: 7, 6, 1925.  
 Newell, Fla. St. Pl. Bd. Quar. B. 9, 73-74, 1925.  
 Newell, Fla. R. f. 1927-28, 40R-41R.  
 Newell, Grossman & Camp, Fla. B. 180, 223-247, 1926.  
 Osburn, J. Ec. Ent. 19, 643-644, 1926.  
 Pepper, Clemson Coll. Wkly. News Notes 15: 5, 1, 1926.  
 Pepper, Clemson Coll. Wkly. News Notes 15: 16, 1, 1926.  
 Pepper, Clemson Coll. Wkly. News Notes 15: 17, 1, 1926.  
 Robinson, Ala. R. 37, 21-22, 1926.  
 Rude, Okla. Exten. News 9: 11, 3, '28.  
 Ruffin, Ala. Poly. Ext. C. 92, 1926, 4 p.  
 Ryan, Calif. Dept. Agr. Mo. B. 17, 624, 1928.  
 iSanborn, Okla. B. 157, 1926, 32 p.  
 Schaub, N. C. Ext. R. 10, 37, 1924.  
 Schaub, N. C. Ext. Folder 17, 1925, 19 p.  
 Schaub, N. C. Ext. R. 12, 44-45, 1926.  
 Schoene, Va. St. Crop. Pest Com., Quar. B. 7: 4, 15-17, 1926.  
 Scholl, Okla. Ext. Serv. News 7: 11, 3, 1926.

- Sherman, N. C. Ext. C. 104, 1920.  
 Soule, Ga. Ext. C. 117, 12, March 1926.  
 Starr, Ga. Coastal Plains B. 5, 19-20, 1925; B. 6, 21-22, 1926; B. 9, 20-21, 1928; B. 11, 20-21, 1929.  
 Starr, Ga. Coastal Plains R. f. 1924, 19-21, 1925.  
 Stiles, Okla. Agr. Ext. News 10; 11, 1, 1929.  
 iTellez, La Hacienda, 20, 88-89, 1925.  
 iThomas, et al. Tex. B. 394, 1929, 40 p.  
 Tisset, Fla. R. f. 1928, 41.  
 Walker, Chemical Warfare 2; 4, 2-3, 1925.  
 iWard, Agr. B. Atlanta & N. P. Railroad Co. 3, 14-15, 1929.  
 Williams, Ga. Ent. B. 69, 4, 1925.  
**Anthonomus grandis—Aeroplane dusting**  
 Clayton, Manufacturers' Rec. 86; 89-90, Dec. 4, 1924.  
 iFischer, Power F. 34, 5, Nov. 1925.  
 Hinds, J. Ec. Ent. 19, 607, 1926.  
 Hinds, Spencer & Jackson, La. R. f. 1925, 20-24, 1926.  
 Morrill, Cal. Cult. 67, 53, 71, 1926.  
 iNelson, Banker F. 13, 4-5, Apr. 1926.  
 Post, Ga. Ext. B. 301, 1924, 22 p.  
 Riley, Agr. Insect. & Fung. Mfg. Assoc. B. 4, 9-11, 1926.  
 Steele, Manufacturers' Rec. 87, 81-83, Feb. 19, 1925.  
 Wilson, Cong. Rec. 67, pt. 3, 3062-3063, 1927.  
**Anthonomus grandis and Sea Island Cotton**  
 Cook & Doyle, U. S. D. A. Dept. C. 414, 12, 1927.  
**Anthonomus grandis—Calcium arsenate**  
 Ambruster, Arsenic, calcium arsenate, ed. 2, 1923, 42 p.  
 Coad, Ga. Ext. C. 117, 10-12, 1926.  
 Firor, C. Gentl. 92; 8, 54, 1927.  
 Grossman, J. Ec. Ent. 22, 972-974, '29.  
 Hinds, La. Ext. C. 74, 1924, 4 p.  
 iKilleffer, Sci. Amer. 137, 165, 1927.  
 Pepper, S. C. Ext. C. 76, 1926, 20 p.  
 Perkins, La. Ext. C. 89, pt. 1, 55-56, 1926.  
 Richardson, Farm & Ranch 44; 37, 24, 1925.

- iRobinson, Ala. Poly. C. 51, 1926, 11 p.  
 Robinson, Ala. R. 38, 23, 1927.  
 Robinson & Arant, Ala. Poly. C. 52, 3-15, 1929.  
 Schaub, N. C. Ext. R. 11, 39-40, 1925.  
 Walker & Mills, Amer. Fert. 66; 12, 34-35, 1927.
- Anthonomus grandis—Chemical warfare**  
 Fries, Indus. & Engin. Chem. 20, 1079-1080, 1928.  
 Stuckey, Ga. R. 37, 64, 1924.  
 Walker, Chemical Warfare 13; 12, 231-237, 1927.  
 Walker & Mills, J. Ec. Ent. 19, 600-601, 1926.  
 Walker & Mills, Indus. & Engin. Chem. 19, 703-711, 1927.
- Anthonomus grandis and Cotton boll growth**  
 Dunman, J. Ec. Ent. 19, 589-593, 1926.
- Anthonomus grandis—Dusting**  
 Clayton, Manufacturers' Rec. 86, 89-90, Dec. 4, 1924.
- Anthonomus grandis—Dusting Machinery**  
 S. C. Wkly. News Notes 18, 1, 1929.
- Anthonomus grandis and Cotton Production**  
 Becker, Commerce & Finance 14, 193, '25.  
 Camp, Fla. Grower 33; 4, 5, 1926.
- Anthonomus grandis—Emergency Fund**  
 Ariz. Com. Agr. & Hort. R. 15; 16, 50-55, 1925.
- Anthonomus grandis—Hibernation**  
 Robinson, Ala. R. 37, 21, 1926.  
 Robinson, Ala. R. 38, 23, 1927.  
 Chemicals, 29; 4, 28, 1928.  
 Farm & Ranch, 45; 12, 33, 1926.  
 Oil, Paint & Drug Rep. 109, 21, Jan. 25, 1926.
- Anthonomus grandis—Infestation Counts**  
 iDunman, J. Ec. Ent. 22, 750-756, 1929.  
 Kimball, Miss. St. Pl. Bd. Quar. B. 8; 1, 9-10, 1928.
- Anthonomus grandis—Longevity records**  
 Grossman, Fla. Ent. 12; 4, 57-59, 1928.
- Anthonomus grandis—Losses**  
 Davis, N. C. St. Agr. 3; 1, 5, 1929.  
 Hough, Sci. Amer. 141, 127, 1929.  
 Leiby, J. Ec. Ent. 21, 151, 1928.  
 Revere, Cotton & Cotton Oil News 30; 35, 5, 1929.  
 Smith, Commerce & Finance 16, 773, Apr. 13, 1927.
- Anthonomus grandis—Mechanism of grub feeding**  
 Grossman, Fla. Ent. 13, 32-33, 1929.
- Anthonomus grandis—Monument**  
 iHerrick, Rur. N. Y. 85, 3-4, 1926.
- Anthonomus grandis—Nonarsenicals for**  
 Marcovitch, J. Ec. Ent. 18, 122, 1925.
- Anthonomus grandis—Oviposition**  
 iGrossman, Fla. Ent. 12, 33-38, 1928.  
 Isely, J. Ec. Ent. 21, 152-155, 1928.
- Anthonomus grandis—Parasites**  
 Cotton & Cotton Oil News 30; 36, 11, 1929.  
 Grossman, Science, 69, 361-362, 1929.
- Anthonomus grandis—Poisons**  
 Coad & Cassidy, Prog. Farm. 42, 206, F. 19, 1927.  
 Coad & Gaines, U. S. Agr. Leaf. 37, 1929, 37 p.
- iGrossman, Fla. B. 192, 148-172, 1928.  
 Grossman, Fla. P. B. 405, 1928, 2 p.  
 Hinds, La. Ext. C. 74, 1924, 4 p.  
 iKilleffer, Sci. Am. 137; 2, 165-6, 1927.  
 Lyle, Miss. St. Pl. Bd. Quar. B. 5; 3, 6-7, 1925.
- iMabee, N. C. Ext. Folder 20, 1926, 4 p.  
 iNickles, S. C. C. 33, 1925, 38 p.  
 Walker & Mills, Indus. & Engin. Chem. 19, 703-711, 1927.  
 Youngblood, Tex. R. 38, 20, 1925.  
 Lit. Digest 94; 23, Jl. 9, 1927.  
 N. C. Agr. Ext. Fold. 20, 1926, 6 p.
- Anthonomus grandis—Senses**  
 iMcIndoo, J. Agr. Res. 33, 1095-1141, 1926.
- Anthonomus grandis—Summer dispersion**  
 Isely, J. Ec. Ent. 19, 108-112, 1926.  
 Isely, Ark. B. 204, 1926, 17 p.
- Anthonomus grandis—Thermotropism**  
 Grossman, J. Ec. Ent. 22, 662-665, 1929.

***Anthonomus grandis*—Weather**

Kincher, Mo. Weather R. 56, 301-304, 1928.

***Anthonomus grandis*—Winter Survival**

Fenton & Dunnam, J. Ec. Ent. 20, 327-336, 1927.

Fooshe, Commerce & Finance 14, 432, Mar. 4, 1925.

***Anthonomus grandis thurberiae* (Thurberia weevil)\***

Bartlett, Cal. Dept. Agr. Sp. Pub. 54, 18-21, 1925; 72, 17-21, 1927.

Becker, U.S.Y.B. 1927, 226-228, 1928.

Bishop et al, Ariz. Com. Agr. & Hort. R. 15-16, 20-22, 1925.

Cassidy, J. Ec. Ent. 19, 772-777, 1926.

Cates, C. Gentle. 91; 5, 66, 1926.

Hunt, Ariz. Com. Agr. & Hort. R. 15-16, 41-46, 1925.

Jacobsen, Cal. Agr. B. 14, 157, 1926.

Jacobsen, Cal. Dept. Agr. Mo. B. 15: 122-123, 1926.

McDonald, Tex. Com. Agr. R. 19, 25, 1926.

McDonald, Assoc. So. Agr. Workers Proc. 28, 142-149, 1927.

Marlatt, USDA, FHB, R. f. 1927, 30-31.

Marlatt, USDA, FHB, R. f. 1928, 37.

Vorhies, Ariz. R. 43, 475-476, 1923.

Amer. Florist, 67; 1991, 6, 1926.

Ariz. Com. Agr. & Hort. R. 15-16, 17-22, 46-50, 1925.

Cong. Rec. 67: 168, 12313-12319, 1926.

Miss. St. Plt. Bd. Quar. B. 6: 3, 13-14, 1926.

Science, 62, Supp. 1605, xii, 1925.

***Anthonomus grandis thurberiae*—Quarantine**

Jardine, USDA, FHB, SRA, 89, 131-132, 1926.

Marlatt, USDA, FHB, SRA, 92, 116-117, 1928.

—USDA, PQCA, SRA, 97, 106, '28.

***Anthonomus musculus* (Cranberry weevil)\***

bLacroix, J. Ec. Ent. 19, 819-829, 1926.

***Anthonomus nubiloides***

nFall, Brklyn. Ent. Soc. B. 23: 239, '28.

***Anthonomus quadrigibbus*, see *Tachypoterellus quadrigibbus******Anthonomus scutellaris* (Plum gouger)\***

Chittenden, Proc. Ent. Soc. Wash. 27, 131-132, 1925.

Cooley, Mont. B. 170, 28, 1925.

Fernald, Applied Ent. Ed. 2, 140, 1926.

***Anthonomus signatus* (Strawberry weevil)\***

iBrittain, N. S. Dept. Nat. Resource B. 12, 62-64, 1927.

Frank, West. Fruit, Flower & Garden 8; 3, 18, 1926.

French, Mass. Ext. B. 29 rev; 11, 1928.

Jardine, Oreg. Bien. R. f. 1926-28, 12, 1928.

Jardine, Oreg. Bien. R. f. 1926-28, 118-119, 1928.

Loree, Mich. Sp. B. 182, 28-29, 1928.

iMacoun & Davis, Canada Dept. Agr. B. 80 (n.s.), 43-45, 1927.

Palmer & Strong, Ont. B. 335, 21-23, '28.

Scholl & Stephens, Texas Dept. Agr. B. 84, 15, 1925.

Sears, Productive Small Fruit Culture, ed. 2, 119-120, 1925.

Smith, La. Ext. C. 113; 32, 1928.

Spittall, Proc. Acadian Ent. Soc. 10, 70, 1925.

Symons, Md. Ext. R. 10, 122, 1925.

***Anthonomus vestitus* (Cotton square weevil)**

Hinds, Ann. Ent. Soc. Amer. 20, 251-254, 1927.

***Anthonomus xantus***

nBlatchley, J.N.Y. Ent. Soc. 33, 99, 1925.

***Anthophilax attenuatus*, *malachiticus***

Champlain, Kirk & Knoll, Ent. News 36, 107, 1925.

***Anthophora abrupta***

iRau, Psyche, 36, 155-161, 1929.

Rau, St. Louis Acad. Sci. Tr. 25, 166-175, 1927.

***Anthophora curta*, *dulcifera***

nCockerell, Pan-Pac. Ent. 3:2; 83-85, '26.

***Anthophora occidentalis***

Knaus, Ent. News 39, 5, 1928.

bMickel, Ent. News 39, 69-78, 1928.

***Anthophora* (*Anthemoessa*) *raui***

Rau, St. Louis Acad. Sci. Tr. 25, 179-182, 1927.

- Anthophora subignava*  
nCockerell, J.N.Y. Ent. Soc. 37, 443, '29.
- Anthophora tsushimensis, urens*  
nCockerell, Pan-Pac. Ent. 3, 83-84, '26.
- Anthrax alternata*  
Snow, J. Ec. Ent. 18, 608-609, 1925.
- Anthrax lucifer*  
Box, Porto Rico Dept. Agr. J. 9, 319, '25.
- Anthrax plesia*  
nCurran, Can. Ent. 59, 84-85, 1927.
- Anthrax scopoli*  
bAldrich, Ins. Insc. Mens. 14, 12-15, '26.
- Anthrax sp. & Tabanidae*  
Rawson, J. Am. Vet. Med. Assoc. 74: 7, 1027-1039, 1929.
- Anthrax willistoni*  
Snow, J. Ec. Ent. 18, 608-609, 1925.
- Anthrenus fasciatus* (Upholstery beetle)  
iHungerford, Kans. St. Bd. Agr. Bien. R. 24, 97-98, 1924.  
McDaniel, Mich. C. B. 104, 9-10, 1927.  
Mutchler & Weiss, N. J. Dept. Agr. C. 108, 15, 1927.
- Anthrenus museorum* (Museum pest)  
bMutchler & Weiss, N. J. Dept. Agr. C. 108, 13, 1927.  
Spencer, Can. Ent. 60, 283, 1928.
- Anthrenus scrophulariae* (Carpet beetle)\*  
iBrittain, N. S. Dept. Nat. Resource B. 12, 124-125, 1927.  
Fernald, Appld Ent. ed. 2, 104-105, '26.  
iGibson & Twinn, Can. Dept. Agr. B. 112, 40-43, 1929.  
iGuyton, Pa. Dept. Agr. Gen. B. 432, 9-11, 1927.  
iHungerford, Kans. St. Bd. Agr. Bien. R. 24, 99-101, 1924.  
McDaniel, Mich. C. B. 104, 8-9, 1927.  
ibMutchler & Weiss, N. J. Dept. Agr. C. 108, 13-14, 1927.  
Spencer, Can. Ent. 60, 283, 1928.  
Strand, Bur. Farm. 3; 12, Minn. Farm Bur. Sec. Aug. p. 17, 1928.
- Anthrenus seminiveus*  
Back, J. Wash. Acad. Sci. 17, 173, 1927.  
iBack & Cotton, Proc. Ent. Soc. Wash. 28, 64, 1926.
- Anthrenus spp.*—Key  
bMutchler & Weiss, N. J. Dept. Agr. C. 108, 24-25, 1927.
- Anthrenus verbasci* (Varied carpet beetle)  
Gibson & Twinn, Can. Dept. Agr. B. 112, 36, 1929.  
McDaniel, Mich. C. B. 104, 9, 1927.  
bMutchler & Weiss, N. J. Dept. Agr. C. 108, 14-15, 1927.
- Anthrenus vorax*  
bMutchler & Weiss, N. J. Dept. Agr. C. 108, 15, 1927.
- Anticarsia gemmatilis* (Velvetbean caterpillar)  
Douglas, Rice Jour. 32; 12, 24, 1929.  
Nickels, J. Ec. Ent. 19, 616, 1926.  
Watson, Fla. Ent. 12, 39-40, 1928.
- Antillicolla gen., auriceps*  
niCurran, Amer. Mus. Nov. 260, 1-2, '27.
- Antillixius greyi*  
niMyers, Harvard Biol. Lab.—Studies on Cuban Insects 1, 17, 1928.
- Antispila argentifera*  
nBraun, Can. Ent. 59, 56, 1927.
- Antispila isabella*  
iGentner, Mich. Sp. B. 148, 16-18, 1925.
- Antispila voraginella*  
nBraun, Trans. Amer. Ent. Soc. 53, 191, 1927.
- Antlered maple caterpillar, *see* *Heterocampa guttivitta*
- Antocha monticola*  
iNeedham and Christenson, Utah B. 201, 24, 1927.
- Antocha* (*Antocha*) *obtusa*  
nAlexander, Ent. News 36, 201-202, '25.
- Antoniae nigropunctata*  
nGoding, J.N.Y. Ent. Soc. 37, 173, '29.
- Antonina crawi* (Cottony bamboo scale)  
Galloway, U.S.D.A.B. 1329, 40-41, 1925.
- ‡*Ants*  
iAaron, Sci. Am. 132: 318-319, May, '25.  
iAndrews, Nature Mag. 6, 217-220, '25.  
iAustin, Nature Mag. 7, 342-346, 1926.  
Barreto, Rev. de Agr. Cuba 8, 6-8, '27.  
Bliss, Iowa Ext. B. 138, 15, 1926.  
Brittain, N. S. Dept. Nat. Resource B. 12, 127-129, 1927.  
Bruner, Rev. de Agr. Cuba, 8, 39-42, '27.  
Burrill, Am. Bee J. 66, 29-30, 1926.  
Davis, Ind. C. 150, 14-16, 1928.  
iEwers, Ant people, 1927, 323, p.

**Ants *Cont'd***

- Filinger, Farm & Dairy 15: 35, 6, 1929.  
 iGibson & Twinn, Can. Dept. Agr. B. 112, 24-25, 1929.  
 Groves, Canadian Hort. 52, 236, 1929.  
 Guyton, Pa. Dept. Agr. Gen. B. 432, 5-6, 1927.  
 Hamlin and Hamlin, J. Ec. Ent. 21, 431, 1928.  
 Hawley, Utah B. 192, 44, 1925.  
 Herms, Hygeia, 4, 157-158, 1926.  
 Hill, Flower Grow. 13, 571, 1926.  
 Hume, Cult. Citrus Fruits, 1926, 431.  
 iHungerford, Kans. St. Bd. Agr. Bien. R. 24, 102-105, 1924.  
 Johnston, Science 68, 157, 1928.  
 bJones, Ants & their relation to Aphis, 1929, 96 p.  
 iLubbock, Ants, bees and wasps. 1929, 377 p.  
 iMacDill, Sci. News Letter, 16; 433, 45-47, 1929.  
 Marlatt, U. S. F. B. 740 rev. 1928, 15 p.  
 iPhillips, Ant-hills and soap bubbles, 1927, 265 p.  
 W. E. W., J. Agr. & Hort. 31, 167, '28.  
 Watson, Fla. Dept. Agr. Quar. B. 39; 3, 54-56, 1929.  
 Watson, Fla. Dept. Agr. Quar. B. 39; 3, 178-179, 1929.  
 Wheeler, Ants. 1926, 663 p.
- Ants and Aphids**  
 Gillette, Colo. R. 40, 30, 1927.  
 biJones, Colo. B. 341, 1929, 96 p.  
 Mason, Ariz. Cattle. & Farm, 12; 51, 4, 1929.  
 Nichol, Ariz. Prod. 8; 9, 8, 1929.
- Ants and Diatraea**  
 Salt, Harvard Inst. Trop. Biol. & Med. Cont. 3, 53-55, 1926.
- Ants, British Columbia—Annotated list**  
 Buckell, Proc. Ent. Soc. B. C. 24, 30-34, 1927.
- Ants—Campaigning against—Miss.**  
 Miss St. Pl. Bd. Quar. B. 9: 2, 10, 1929.
- Ants—Canary Islands**  
 biWheeler, Amer. Acad. Arts & Sci. Proc. 62; 3, 1927, 120 p.

**Ants—Colorado**

Jones, Colo. B. 341, 30-79, 1929.

**Ants—Economic value in forests**

Eidmann, Internat. Cong. Ent. 4, Tr. 2, 354-355, 1929.

**Ants—in bee hives**

Paddock, Iowa Ext. Service B. 154, 21, 1929.

S., S., Rur. N. Y. 85, 1456, 1926.

**Ants—in oak galls**

Sturtevant, Psyche 32, 313-314, 1925.

**Ants—Kansas**

Hayes, Ent. News 36, 69, 1925.

**Ants—Man eating**

Ewers, Hosp. Corps Quar. 11, 118-123, 1927.

**Ants—Mermis parasitism and intercastes**

iWheeler, J. Exp. Zool. 50: 2, 165-237, 1928.

**Ants—Migration**

Sylvester, Guide to Nature 17, 161-162, 1925.

**Ants of Mississippi**

Smith, Ent. News 38, 308-314, 1927.

Smith, Miss. St. Plant. Bd. Quar. B. 8: 2, 1-4, 1928.

Smith, Ent. News 39, 242-251, 1929.

**Ants—Mounds**

Andrews, Psyche 32, 75-87, 1925.

Andrews, Ent. News 36, 173-179, 1925.

bAndrews, Quar. Rev. Biol. 4, 248-257, 1929.

Andrews, J. Morphol. & Physiol. 44, 1-20, 1927.

**Ants—Nantucket Island**

Wheeler, Psyche 35, 10-11, 1928.

**Ants—Poison**

Fluke, Ia. Homestead, 74, 777, 1929.

iDodds, Calif. Citrog. 11, 446, 1926.

Lieber, Ind. Dept. Conserv. R. 7, 45-46, 1925.

Sorenson, Utah B. 209, 54, 1929.

Watson, Fla. B. 412-414, 1926.

Watson, Fla. Dept. Agr. Quar. B. 39: 3, 206-207, 1929.

**Ants—Slave-making raids**

bSmith, J.N.Y. Ent. Soc. 36, 323-333, '28.

**Anuraphis bakeri (Clover aphid)\***

- iCutright, Ohio B. 387, 190-191, 1925.  
iQuaintance & Baker, U. S. F. B. 1128,  
rev. Apr. 1926, 10-11.

**Anuraphis cardui (Thistle aphid)\***

- iQuaintance & Baker, U. S. F. B. 1128,  
rev. Apr. 1926, 14.  
Idaho B. 149, 27, 1927.

**Anuraphis chrysothamnicola**

- niPalmer, Ann. Ent. Soc. Amer. 22, 5-7,  
1929.

**Anuraphis crataegifoliae (Thorn leaf aphid)**

- iCutright, Ohio B. 387, 191, 1925.  
Quaintance & Baker, U. S. F. B. 1128;  
rev. Apr. 1926, 12.

**Anuraphis debilicornis**

- niPalmer, Ent. Soc. Amer. Ann. 22, 10-12, 1929.

**Anuraphis filifoliae**

- niGillette and Palmer, Ann. Ent. Soc. Amer. 21, 9-10, 1928.

**Anuraphis flocculosa**

- niPalmer, Ann. Ent. Soc. Amer. 22, 7-8,  
1929.

**Anuraphis gutierrezis**

- niPack & Knowlton, Can. Ent. 61: 200-201, 1929.

**Anuraphis helichrysi**

- Quaintance & Baker, U. S. F. B. 1128;  
rev. Apr. 1926, 15-16.

**Anuraphis madronae**

- niEssig, Pan-Pacific Ent. 3:1, 42-43,  
1926.

**Anuraphis maidi-radici (Corn root aphid)\***

- Compton, Canning Trade 48:51, 8, 1925.  
Compton, Ill. C. 297, 23-24, 1925.  
iCutright, Ohio B. 387, 192, 1925.  
Forbes, Ill. Nat. Hist. Surv. B. 16,  
453, 1927.

Severin, S. Dak. Ent. R. 15, 13, 1924.

Weigel, Amer. Hort. Soc. B. 3, 1926.

**Anuraphis malifoliae, see Anuraphis roseus (Rosy apple aphid)\*****Anuraphis minutissima**

- niGillette & Palmer, Ann. Ent. Soc. Amer. 21, 8-9, 1928.

**Anuraphis ornata**

- niPalmer, Ann. Ent. Soc. Amer. 22, 3-5,  
1929.

**Anuraphis persicae-niger (Black peach aphid)\***

- iCutright, Ohio B. 387, 193-197, 1925.  
Cutright, Ohio B. 387, 216-220, 1925.  
Cutright, J. Ec. Ent. 20, 250-253, 1927.  
iQuaintance & Baker, U. S. F. B. 1128,  
rev. Apr. 1926, 21.  
Williams, Ohio B. 382, 34-35, 1924.

**Anuraphis prunicola**

- iQuaintance & Baker, U. S. F. B. 1128,  
rev. Apr. 1926, 21.

**Anuraphis roseus (Rosy apple aphid)\***

- iBrittain, N. S. Dept. Nat. Resource B. 12, 46-47, 1927.

Brittain, Mass. Fr. Grow. Assoc. R. 31, 119, 1925.

Britton, Conn. B. 294, 296, 1928.

Cory, Md. St. Hort. Soc. R. 28, 178, '26.

Crosby et al, N.Y.C.B. 498, 9-14, 1929.

Felt, N. Y. St. Hort. Soc. Proc. 70, 57, 1925.

Hodgkiss, Penn. St. Hort. Soc. Proc. f. 1926, 27-28.

Jardine, Oreg. Bien. R. 1924-1926, 98-99, 1926.

Kelsall, Nova Scotia Fr. Grow. Assoc. R. 62, 61, 1925.

biLathrop, Ohio J. Sci. 28, 162, 1928.

Lipman, N. J. R. 50, 145, 1929.

McConnell, Md. B. 298, 180-181, 1928.

Parrott, N. Y. St. Hort. Soc. Proc. 70, 17-22, 1925.

Parrott, Va. St. Hort. Soc. Proc. 29, 165-170, 1927.

Parrott, Mich. St. Hort. Soc. R. 59, 84, 1929.

Parrott & Glasgow, J. Ec. Ent. 18, 214, 1925.

Quaintance & Baker, U. S. F. B. 1128,  
rev. Apr. 1926, 3-6.

Spittall, Proc. Acadian Ent. Soc. 10, 60, 1925.

Taylor, Mich. St. Hort. Soc. R. 59, 94-95, 1929.

Thatcher, N. Y. Geneva R. 44, 37, 1925.

Thatcher, N. Y. Geneva R. 46, 43-44, 1927.

**Anuraphis senecioradicis**

- niPalmer, Ann. Ent. Soc. Amer. 22, 9-10, 1929.



- Anuraphis tulipae** (Tulip aphid)  
 Doucette, J. Ec. Ent. 20, 431-432, 1927.  
 iJacobssen, Cal. Agr. B. 14, 168, 1926.
- Anuraphis viburnicola** (Snowball aphid)  
 Cutright, Ohio B. 387, 192-193, 1925.
- Anurogryllus muticus** (Short-tailed cricket)  
 iWalker, Flower Gr. 15: 3, 122, 1928.
- Anusoidea**, n. gen., aureiscutellum  
 Girault, Ins. Insc. Mens. 14, 128, 1926.
- Anusoidea comperei**  
 niTimberlake, Cal. Univ. Pub. Ent. 5;  
 2, 11-15, 1929.
- Anyteola** n. gen.  
 nBarnes & Benjamin, Bklyn. Ent. Soc.  
 B. 24, 168-170, 1929.
- Anysis saissetiae**  
 ibSmith & Compere, Cal. Univ. Pub.  
 Ent. 4, 309-312, 1928.
- Anystis agilis**  
 Dozier, Del. Ext. C. 26, 5, 1929.  
 Miller, Ohio B. 386, 98, 1925.
- Anytus sculptus**  
 McDunnough, Can. Ent. 59, 64, 1927.
- Apacheprospherysa orbitalis**  
 nTownsend, Ins. Insc. Mens. 14, 28, '26.
- Apaeticus americanus**  
 nCushman, P.U.S.N.M. 67; 23, 4, 1926.
- Apanteles ammalonis**  
 nMuesebeck, P. U. S. N. M. 69; 7, 8-9,  
 1926.
- Apanteles aristotelidae**  
 Merrill, Cal. R. 1924-25, 46, 1926.
- Apanteles artonae**  
 nRohwer, Proc. Ent. Soc. Wash, 28,  
 188-189, 1926.
- Apanteles carpatus**  
 iUnderhill, Va. Poly. B. 251, 18, 1926.
- Apanteles cerurae**  
 nMuesebeck, P.U.S.N.M. 69; 7, 15-16, '26.
- Apanteles congregatus**  
 iWatson, Fla. Dept. Agr. Quar. B. 39;  
 142-143, 1929.
- Apanteles coxalis**  
 nMuesebeck, P.U.S.N.M. 69; 7, 13-14, '26.
- Apanteles diatraea**  
 Earle, Facts about sugar, 22, 969, 1927  
 ibAnn. Ent. Soc. Amer. 22, 630-633, '29.
- Apanteles fulvipes**  
 Webber, J. Ec. Ent. 20, 304, 1927.
- Apanteles glomeratus**  
 Essig, Insects of Western No. Amer.  
 1926, 781.
- Apanteles gordii** 9-10, hardenae 14-15,  
 nMuesebeck, P.U.S.N.M. 69; 7, 1926.
- Apanteles lacteicolor**  
 iBurgess & Crossman, USDA Tech. B.  
 86, 120-127, 1929.
- Apanteles laeviceps**  
 Snow, J. Ec. Ent. 18, 606, 1925.
- Apanteles liparidis**  
 il-hBurgess & Crossman, USDA Tech.B.  
 86, 95-103, 1929.
- Apanteles lyciae**  
 nMuesebeck, P.U.S.N.M. 69; 7, 16-17, '26.
- Apanteles marginiventris**  
 Viereck, Proc. Ent. Soc. Wash. 27, 138,  
 1925.
- Apanteles melanoscelus**  
 il-hhBurgess & Crossman, USDA Tech.  
 B. 86, 38-49, 1929.  
 Cushman, J. Agr. Res. 34, 453, 1927.  
 Muesebeck, J. Agr. Res. 34, 331, 1927.
- Apanteles militaris**  
 ibMuesebeck and Dohanian, U. S. D. A.  
 B. 1487, 1927, 35 p.
- Apanteles militaris**  
 Viereck, Proc. Ent. Soc. Wash. 27,  
 138, 1925.
- Apanteles nephopteris**  
 Frison, Ann. Ent. Soc. Amer. 19, 228, '26.
- Apanteles noctuidiphagus**  
 nMuesebeck, P.U.S.N.M. 69; 7, 7-8, '26.
- Apanteles oidematophori, phlyctaeniae**  
 nMuesebeck, Proc. Ent. Soc. Wash. 31,  
 118-120, 1929.
- Apanteles porthetriae**  
 Burgess & Crossman, USDA Tech. B.  
 86, 13, 88-95, 1929.  
 nMuesebeck, Proc. Ent. Soc. Wash. 30,  
 8-9, 1928.
- Apanteles pterophori**  
 nMuesebeck, P.U.S.N.M. 69; 7, 6-7, '26.
- Apanteles pyrophylae**  
 Muesebeck, P.U.S.N.M. 69; 7, 11-12, '26.
- Apanteles rufocoxalis**  
 Viereck, Proc. Ent. Soc. Wash. 27,  
 138, 1925.

- Apanteles* sp.  
 Balduf, Ohio J. Sci. 29, 232, 1929.  
 McLaine, Ont. Ent. Soc. R. 57, 22, 1927.
- Apanteles teleae*  
 nMuesebeck, P.U.S.N.M. 69; 7, 12, 1926.
- Apanteles thompsoni*  
 Baird, Ont. Ent. Soc. R. 59, 39, 1929.  
 iJones, USDA Tech. B. 98, 6-8, 21-22, 1929.
- Apantesis*—Male appendages  
 Learned, Psyche, 34, 135-145, 1927.
- Apantesis vittata*  
 iLearned, Ent. News 39, 265-269, 1928.
- Aparamesius nigriclavus*  
 niFouts, Proc. Ent. Soc. Wash. 28, 169, 1926.
- Apatе carmelita*  
 iBruner, Cuba C. 68, 28-29, 1929.
- Apatеcus maculiventris*  
 iLuginbill, USDA Tech. B. 34, 84, 1928.
- Apatela americana*  
 Larson, J. Ec. Ent. 20, 647, 1927.
- Apatela cassinoi*  
 nBarnes & Benjamin, Can. Ent. 58, 309, 1926.
- Apatela impleta*  
 nChermok, Brklyn. Ent. Soc. B. 22, 118, 1927.
- Apatela longa, pruni*  
 nBarnes & Benjamin, Can. Ent. 58, 308-309, 1926.
- Apatelodes floramia*  
 nDyar, Ins. Insc. Mens. 14, 144, 1926.
- Apatelodes ibar*  
 nSchaus, Proc. Ent. Soc. Wash. 29, 105, 1927.
- Apatelodes jessica, maudamia*  
 nDyar, Ins. Insc. Mens. 14, 143-144, 1926.
- Apatelodes paraguayana*  
 nSchaus, Proc. Ent. Soc. Wash. 29, 104-105, 1927.
- Apechthis ornatulus*  
 niWalley, Can. Ent. 61, 190-191, 1929.
- Apela archimma*  
 nSchaus, P.U.S.N.M. 73; 19, 54-55, 1928.
- Apelma brevis*  
 nJohannsen, Proc. Ent. Soc. Wash. 29, 205-208, 1927.
- Apemon rufa*  
 niVan Duzee, Cal. Acad. Sci. Proc. 17; 2, 32, 1928.
- Aphaenogaster (Attomyrma) gatesi*  
 nWheeler, Psyche, 34, 44-45, 1927.
- Aphaenogaster* spp.—Mississippi  
 nSmith, Ent. News 39, 242-246, 1928.
- Aphaenogaster texana*  
 nSmith, Ent. News 39, 275-279, 1928.
- Aphania afficticia, infida*  
 niHeinrich, U.S.N.M.B. 132, 118, 1926.
- Aphania* spp.—key  
 Heinrich, U.S.N.M.B. 132, 114-115, '26.
- Aphania strigosa*  
 niHeinrich, U.S.N.M.B. 132, 118-119, '26.
- Apharetra dentata*  
 McDunnough, Can. Ent. 59, 64, 1927.
- Aphelenchus pusillus*  
 nibThorne, Amer. Micro. Soc. Trans. 48, 182, 1929.
- Aphelinus chrysomphali*  
 Smith, J. Ec. Ent. 19, 299, 1926.
- Aphelinus diaspidis* (Golden chalcid)  
 Vandenberg, Guam, R. f. 1925 18, 1926.
- Aphelinus jucundus*  
 iGriswold, Ann. Ent. Soc. Amer. 22, 440-444, 1929.
- Aphelinus mali*—Travels  
 Howard, Ann. Ent. Soc. Amer. 22, 341-368, 1929.
- Aphelinus mytilaspidis*  
 biGriswold, N. Y. C. M. 93, 56-67, 1925.
- Aphelonema* spp.—Key  
 Ball, Can. Ent. 58, 241-244, 1926.
- Aphetea affinis*  
 niHaviland-Brindley, Zoologica, N. Y. 6, 252, 1925.
- Aphetea bicolor*  
 nGoding, J. N. Y. Ent. Soc. 34, 280-281, 1926.
- Aphetea maculata*  
 niFunkhouser, J. N. Y. Ent. Soc. 35, 163, 1927.
- Aphid* wasp, *see* *Stigmus fraternus*
- Aphidencyrus inquisitor*  
 Gahan, P.U.S.N.M. 71: 4, 18, 1927.  
 Griswold, Ann. Ent. Soc. Amer. 19, 332-334, 1926.  
 iGriswold, Ann. Ent. Soc. Amer. 22, 445-448, 1929.

**Aphididae—British Columbia**

Glendenning, Proc. Ent. Soc. B. C. 21, 40-43, 1924; 22, 36-38, 1925.

**Aphididae—Colorado**

iGillette & Palmer, Ann. Ent. Soc. Amer. 21, 1-24, 1928.

Palmer, Ann. Ent. Soc. Amer. 22, 1-32, 1929.

**Aphididae—Cornicles**

iHottes, Proc. Biol. Soc. Wash. 41, 71-84, 1928.

**Aphididae—Wing production**

bEwing, Amer. Nat. 60, 576-579, 1926.

**Aphidius commodus**

nGahan, P.U.S.N.M. 70; 8, 2-3, 1927.

**Aphidius laticeps**

nGahan, P.U.S.N.M. 70; 8, 2-3, 1927.

**Aphidius rosae**

ibFluke, Wis. Res. B. 93, 39, 1929.

**Aphidius testaceipes**

Folsom, J. Ec. Ent. 20, 841, 1927.

**Aphidius unilachni**

nGahan, P.U.S.N.M. 70; 8, 1-2, 1927.

**Aphidoletes meridionalis**

ibFluke, Wis. Res. B. 93, 12, 1929.

**Aphidozer**

Dudley, Canning Age, 6, 249-250, 1925.

Dudley, Searls and Weed, Canning Trade 51; 17, 12, 14, 1928.

Mathisen, Amer. Farming 19; 9, 5, 1924.

Wis. B. 373, 21-22, 1925.

**†Aphids**

Bourne, Mass. Ext. Leaf 31 rev. 1929, 4 p.

Britton and Zappe, Conn. B. 292, 150-151, 1927.

Brock, Calif. Citrog. 14, 427, 1929.

Compton, Ill. Hort. Soc. Trans. 59, 315-316, 1926.

Cory, Md. St. Hort. Soc. R. 29, 188-189, 1927.

Cutright, Ohio St. Hort. Soc. Proc. 58, 46-55, 1925.

biCutright, Ohio B. 387, 175-234, 1925.

Cutright, Ohio J. Sci. 25, 313-314, 1925.

Cutright, Ohio St. Hort. Soc. Proc. 59, 201, 1926.

Curtiss, Iowa R. f. 1926, 41.

iDodds, Calif. Citrog. 11, 376, 411-2, '26.

Dodds, Calif. Citrog. 12, 181, 1929.

Ensign, Citrus Industry 7; 3, 19, 1926.

Gardner, Mich. R. f. 1926-28: 15.

iGibson & Twinn, Can. Dept. Agr. B. 112, 51-52, 1929.

Gillette, Col. R. 40, 30, 1927.

iGriswold, N. Y. Cornell Ext. B. 162, 1927, 15 p.

Guyton, Penn. Acad. Sci. Proc. 1, 102-104, 1926.

H. J., Cal. Cult. 71, 563, 1928.

Horsfall, Penn. St. Hort. Assoc. Proc. 65, 144, 1924.

Horsfall, Penn. St. B. 196, 32, 1925.

Hottes, Proc. Biol. Soc. Wash. 41, 133-138, 1928.

Kelly, Kans. Ext. B. 62, 21-23, 1929.

niKnowlton, Ann. Ent. Soc. Amer. 21, 259-268, 1928.

Ladd, N. Y. C. Ext. B. 35, 23, 1929.

Lathrop, S. C. Clem. Coll. Wkly. News Notes, 13; 45, 1, 1925.

Lenfest, Citrus Industry 6; 4, 36, 1925.

Lenfest, Citrus Indus. 7; 4, 20, 1926.

Lenfest, Citrus Indus. 7; 6, 15-16, 1925.

Lyle, Miss. St. Pl. Bd. Quar. B. 9; 2, 4-8, 1929.

McDaniels, Mich. Q. B. 10, 172, 1928.

McHatton, Firor & Keener, Ga. Ext. B. 257, rev. 1926, 27.

Marcovitch, Tenn. Ext. C. 17, 1928, 2 p.

Mote, Oreg. C. 65, 14, 1926.

Newell, Fla. Hort. Assoc. Proc. 38, 159-160, 1925.

Nichol, Ariz. Prod. 8; 9, 8, 1929.

bNolla, J. Dept. Agr. Porto Rico, 13, 59-72, 1929.

Petch & Armstrong, Quebec Soc. Protec. Plants R. 17, 74, 1925.

Pettit, Mich. St. Bd. Agr. R. 66, 353, 1928.

Pettit, Mich. Sp. B. 183, 6-7, 1929.

Pierstorff, J. Ec. Ent. 18, 227, 1925.

Quaintance & Baker, U. S. F. B. 1128; rev. Apr. 1926, 34 p.

Sherman, N. C. R. 47, 69, 1925.

Thatcher, N. Y. Gen. R. 45, 42-43, 1926.

Whitehead, J. Agr. & Hort. 32; 1, 9, 1928.

- iWoglum, Cal. Citrog. 10, 230, 1925.  
Woglum, Cal. Citrog. 11: 5, 166, 1926.  
Youngblood, Tex. R. 38, 19, 1925.
- Aphids—British Columbia**  
Glendenning, Can. Ent. 58, 95-98, 1926.  
Glendenning, B. C. Ent. Soc. Proc. 26, 54-57, 1929.
- Aphids and dwarf of blackberries**  
iZellar, Phytopath. 17, 642-645, 1927.
- Aphids—Eggs—spraying**  
Cortright, Rur. N. Y. 88, 1429, 1929.
- Aphids and fireblight**  
Tullis, Mich. Tech. B. 97, 15-18, 1929.
- Aphids and mosaic disease**  
Fitch, Potato News Bul. 2, 400, 1925.
- Aphids and potato diseases**  
Folsom, Schultz & Bonde, Me. B. 331, 105, 1926.
- Aphids and sugar cane mosaic**  
East & Weston, Harvard Inst. Trop. Biol. & Med. Cont. 1, 22-24, 1925.
- Aphids and weather conditions**  
iGarman, Conn. B. 294, 271-276, 1928.
- Aphids—Ants**  
bJones, Ants & Their Relation to Aphis, 1929, 96 p.
- Aphids—Apple**  
iHeadlee & Ginsburg, N. J. B. 469, 1929, 15 p.  
ibiLathorp, Ohio J. Science 28, 177-204, 1928.  
Parrott, N. Y. St. Hort. Soc. Proc. 73, 6-14, 1928.
- Aphids—Currants**  
Mackintosh, The Farmer, St. Paul 43, 232, 1925.
- Aphids—Dusting**  
Dutton, Mich. Hort. Soc. R. 58, 33-39, 1929.
- Aphids—Microscopic preparations**  
Roepke, Internat. Cong. Ent. 4, Tr. 2, 917-918, 1929.
- Aphids—Migration**  
Davidson, Sci. Progress 21, 641-658, 1927; 22, 57-69, 1928.
- Aphids—N. J. 1926**  
Headlee, N. J. Hort. Soc. Proc. f. 1926, 32-33.
- Aphids—Parasites**  
niSpencer, Ann. Ent. Soc. Amer. 19, 119-157, 1926.  
iSpencer, Ohio St. Univ. Zool. & Ent. Cont. 88, 119-157, 1926.  
Thompson, Fla. Ent. 11, 49-52, 1928.  
Thompson, Fla. St. Hort. Soc. Proc. 41, 41-42, 1928.
- Aphids—Spraying**  
Huckett, N. Y. Gen. Tech. B. 121, 1926, 29 p.  
Pepper, S. C. Clemson Coll. Wkly. News Notes 14, 43, 1926.  
Fruit Belt 22; 6, 5, 1924.  
iTurner, J. Ec. Ent. 22, 323-326, 1929.  
Zappe & Stoddard, Conn. B. 275, 278-280, 1926.  
Wash. Ext. Serv. News 11, 6, 1925.
- Aphids—Spraying vs. Dusting**  
Huckett, C. Gentl. 91; 3, 113, 1926.
- Aphids—Types**  
bShull, Biol. Rev. 4; 3, 218-248, 1929.
- Aphids—Weight**  
Herrick, Ent. News 37, 207-210, 1926.  
Herrick, Bur. Farm 4, 2. Utah St. Farm Bur. News 23, Oct. 1928.
- Aphilanthops quadrinotatus**  
Hicks, Can. Ent. 59, 51-55, 1927.
- Aphiochaeta aletiae**  
Balduf, Ohio J. Sci. 29, 229-230, 1929.
- Aphiochaeta albidihalteris**  
iPopenoe, USFB 789, rev. July 1925, 1-2.
- Aphiochaeta catana**  
nCurran, Amer. Mus. Nov. 339, 8, 1929.
- Aphiochaeta longifrons**  
Reinhard, Nat. Mag. 13, 157, 1929.
- Aphiochaeta scalaris**  
Brues, Psyche 35, 137, 160-161, 1928.
- Aphiochaeta sp.**  
Snow, J. Ec. Ent. 18, 609, 1925.
- Aphis abbreviata**  
biPatch, Maine B. 323, 18-24, 1925.
- Aphis asterensis**  
niPalmer, Ann. Ent. Soc. Amer. 22, 22-23, 1929.
- Aphis bonnevillensis**  
niKnowlton, Ann. Ent. Soc. Amer. 21, 262-264, 1928.
- Aphis brassicae, see Brevicoryne brassicae**

**Aphis careopsides**

Hoerner, Ind. B. 310, 452-454, 1929.

**Aphis cercocarpi**

niPalmer, Ann. Ent. Soc. Amer. 22, 17-18, 1929.

**Aphis cerasifoliae (Choke-cherry aphid)**

iQuaintance & Baker, U. S. F. B. 1128; Rev. Apr. 1926, 17.

**Aphis chrysothamnica**

nKnowlton, Pan. Pac. Ent. 6, 38, 1929.

**Aphis citricola, see Aphis spiraeola****Aphis cryptus**

niPack & Knowlton, Can. Ent. 61, 199-200, 1929.

**Aphis forbesi (Strawberry root aphid)\***

Brooks et al., Fla. B. 204, 522-523, '29.

Cutright, Ohio B. 387, 197, 1925.

Forbes, Ill. Nat. Hist. Surv. B. 16, 450, 1927.

French, Mass. Ext. Leaf. 29, rev. 12, '28.

Gillette, Colo. Ent. C. 47, 12-13, 1925.

iMarcovitch, J. Agr. Res. 30, 441-449, '25.

Scholl & Stephens, Tex. Dept. Agr. B. 84, 17-18, 1925.

Sears, Productive Small Fruit Culture, ed. 2, 120-121, 1925.

Smith, La. Ext. C. 113, 29-30, 1928.

**Aphis fraseriae**

niPalmer, Ent. Soc. Amer. Ann. 22, 16-17, 1929.

**†Aphis gossypii (Cotton aphid, Melon aphid)\***

iBatchelder, Ann. Ent. Soc. Amer. 20, 263-278, 1927.

Beattie, U. S. F. B. 1563, 14-15, 1928.

iCaesar, Ont. Dept. Agr. B. 325, 45-46, 1927.

iChittenden & White, U. S. F. B. 1499, 1926, 16 p.

Coad et al., U. S. Dept. Agr. Leaf. 53, 1929, 4 p.

iCompton, Ill. C. 297, 34-35, 1925.

Compton, Ill. Hort. Soc. Trans. 60, 415-416, 1927.

Cory, Md. Agr. Soc. R. 8, 379, 1924.

Folsom, J. Ec. Ent. 20, 840-843, 1927.

Good, Ala. R. 36, 14, 1925 (1928?)

Good, Ala. R. 35, 15, 1924.

Harned, Miss. R. 39, 18-19, 1927.

Harned, Miss. R. 40, 25-26, 1928.

Harned, Miss. R. 41, 25-28, 1928.

iHeadlee, N. J. C. 178, 9-12, 1925.

Hinds, La. Ext. C. 79, 1925, 4 p.

Hinds, Spencer & Jackson, La. R. f. 1925, 22.

Long, S. C. Ext. C. 95, 9-10, 1928.

Otten, Purdue Agr. 22, 102, 1928.

Patch, Science 62, 510, 1925.

iPatch, Me. B. 326, 185-196, 1926.

Pettit, Mich. Sp. B. 183, 31-32, 1929.

bReinhard, Tex. B. 355, 1927, 19 p.

Spencer & Henderson, Va. Truck B. 5, 412, 1925.

Watson, La Hacienda, 20, 376, 1925.

iWatson, Fla. B. 183, 374, 1926.

Watson, Fla. Dept. Agr. Quar. B. 39; 3, 145-146, 1929.

White, U. S. F. B. 1468, 24, 1926.

Tex. R. 39, 28, 1926 (1927).

**Aphis gossypii and Mosaic**

ibOgilvie & Guterman, Phytopathology 19; 3, 311-315, 1929.

**Aphis gossypii—Wings**

Reinhard, Tex. B. 353, 1927, 19 p.

**Aphis gregalis**

niKnowlton, Ann. Ent. Soc. Amer. 21, 259-262, 1928.

Knowlton, Fla. Ent. 13, 6, 1929.

**Aphis illinoisense (Grape vine aphid)\***

Pena, La Hacienda, 22, 245-246, 1927.

iQuaintance & Baker, U. S. F. B. 1128; rev. Apr. 1926, 45.

**Aphis laciniariae**

niPalmer, Ann. Ent. Soc. Amer. 22, 15-16, 1929.

**Aphis lupini**

niPalmer, Ann. Ent. Soc. Amer. 22, 18-20, 1929.

**Aphis maidi-radici, see Anuraphis maidi-radici (Corn root aphid)\*****Aphis maidis (Corn leaf aphid)\***

Call, Kans. R. f. 1924-26, 78.

Earle, Facts About Sugar 22, 1013, 1927.

ilhMohler, Kans. St. Bd. Agr. Quar. R. 48; 197, 199-221, 1929.

Myers, Harvard Inst. Trop. Biol. & Med. Cont. 3, 92-96, 1926.

Sein, Porto Rico Insul. R. f. 1927-28, 91, 1929.

Wolcott, Science 69, 381, 1929.

- Aphis maidis and Sugarcane Mosaic**  
 Reyes, P. I. Dept. Agr. Misc. Papers  
 on Sugarcane, 54-56, 1929.
- Aphis maidis and Sugarcane Disease**  
 Wolcott, Ecology 9, 461, 1928.
- Aphis medicaginis (Cowpea aphid)\***  
 Quaintance & Baker, U. S. F. B. 1128,  
 rev. Apr. 1926, 12.
- Aphis neomexicanus**  
 Quaintance & Baker, U. S. F. B. 1128,  
 rev. Apr. 1926, 24.
- Aphis oenotherae**  
 nGillette, Ann. Ent. Soc. Amer. 20, 346,  
 1927.
- Aphis oestlundii**  
 niGillette, Ann. Ent. Soc. Amer. 20, 345-  
 346, 1927.
- Aphis ogilviei**  
 Ogilvie, Bermuda Dept. Agr. R. f.  
 1928, 51.
- Aphis pentstemonicola**  
 niPalmer, Ann. Ent. Soc. Amer. 22, 23-  
 26, 1929.
- Aphis phaceliae**  
 niPalmer, Ann. Ent. Soc. Amer. 22, 26-  
 28, 1929.
- †Aphis pomi (Apple aphid)\***  
 iBaker, J. Ec. Ent. 19, 648-650, 1926.  
 iBrittain, N. S. Dept. Nat. Resource B.  
 12, 47-48, 1927.  
 Britton, Conn. B. 294, 296, 1928.  
 iBritton and Zappe, Conn. B. 292, 134-  
 135, 1927.  
 Caesar & Ross, Ont. Ent. Soc. R. 58,  
 20, 1928.  
 Chambers, Wis. Hort. 15, 122, 1925.  
 Cooley, Mont. B. 170, 25, 1925.  
 Crawford, N. C. Dept. Agr. B. Jan.  
 1926, 9.  
 Cutright, Ohio St. Hort. Soc. Proc. 59,  
 101-109, 201-202, 1926.  
 Cutright, Ohio Hort. Soc. Proc. 61,  
 106-114, 1928.  
 Cutright, Ohio St. Hort. Soc. Proc. 63,  
 106-114, 1928.  
 Cutright, Ohio B. 341, 73-74, 1929.  
 Cutright, Ohio Wkly. P. B. 14, 35, 1929.  
 Gentner, Ann. R. Mich. St. Hort. Soc.  
 55, 72-75, 1925.  
 Headlee, N. J. R. 46, 371, 402-409, 1925.
- Headlee, N. J. R. f. 1926-27, 124-127,  
 1928.
- Hodgkiss, Penn. St. Hort. Soc. Proc.  
 f. 1926, 27-28.
- Jardine, Oreg. Bien. R. f. 1926-28, 105,  
 1928.
- ibLathrop, Ohio J. Sci. 28, 183, 1928.
- Lipman, N. J. R. 50, 147-149, 1929.
- Patch, J. Ec. Ent. 22, 698-699, 1929.
- Petch, Ont. Ent. Soc. R. 59, 17, 1929.
- Phipps, Me. Ext. C. 100, 4-5, 1929.
- iQuaintance & Baker, U. S. F. B. 1128;  
 rev. Apr. 1926, 7.
- Ross, Ont. Fr. Growers Assoc. R. 59,  
 7-10, 1927.
- Ross & Caesar, Ont. Ent. Soc. R. 59,  
 19, 1929.
- Schoene, Va. St. Crop Pest Com., Quar.  
 B. 7; 20-21, 1926.
- Spittall, Proc. Acadian Ent. Soc. 10,  
 69, 1925.
- Spittall, Ont. Ent. Soc. R. 58, 9-10, '28.
- Taylor, Mich. St. Hort. Soc. R. 59, 95-  
 96, 1929.
- Watson & Ruprecht, Citrus Industry  
 6; 11, 19, 1925.
- Watson & Ruprecht, Fla. P. B. 369,  
 1925.
- .Williams, Ohio B. 417, 46, 1928.
- Aphis pseudobrassicae, see Rhopalosi-**  
**phum pseudobrassicae**
- Aphis ribiensis**  
 inPalmer, Ent. Soc. Amer. Ann. 22, 20-  
 22, 1929.
- Aphis ribis, see Myzus ribis (Currant**  
**aphid)\***
- Aphis rubi, see Amphorophora rubi**
- Aphis rubicola**  
 Winter, Ent. News 40, 193-194, 1929.  
 Winter, Minn. Tech. B. 61, 13, 1929.
- Aphis rubiphila**  
 iSmith, Penn. Acad. Sci. Proc. 1, 83-  
 84, 1928.  
 Winter, Ent. News 40, 193-194, 1929.
- Aphis rubiphila and disease**  
 iBennett, Mich. Tech. B. 80, 12-22, '27.  
 Rankin, N. Y. Geneva B. 543, 33-35, 44-  
 45, 1927.  
 Smith, J. Ec. Ent. 18, 509, 1925.  
 bWinter, J. Ec. Ent. 22, 486-490, 1929.

- Aphis rumicis*, (Bean-aphid), Snow-ball aphid, Dock aphid)  
 iBrittain, N. S. Dept. Nat. Resource B. 12, 76, 1927.  
 Horsfall, Univ. Iowa Stud. Nat. Hist. 11; 2, 1925, 57 p.
- Aphis rumicis*  
 Quaintance & Baker, U. S. F. B. 1128; rev. Apr. 1926, 11.  
 Williams, Ohio B. 402, 62, 1927.
- Aphis sanborni*, see *Macrosiphonella sanborni* (*Chrysanthemum aphid*)\*
- Aphis setariae*, see *Hysteroneura setariae*
- Aphis sorbi*, see *Anuraphis roseus*
- Aphis* sp.  
 Woglum, Cal. Cit. 11, 166, 1926.
- Aphis* spp.—Calcium cyanide fumigation  
 iKelly, Citrus Industry 5: 6, 8, 1924.
- †*Aphis spiraeicola* (*Citrus aphid*)  
 Anderson, Fla. Ent. 9, 57, 1926.  
 Berger, Citrus Indus. 6; 2, 17, 1925.  
 Berger, Fla. Hort. Assoc. Proc. 38, 168-172, 1925.  
 Beyer, Fla. Hort. Assoc. Proc. 36, 146-147, 1925.  
 Boncquet, Calif. Cult. 68, 535, 1927.  
 Brock, Citrus Leaves 9: 7, 10-11, 1929.  
 Brown, Fla. Hort. Soc. Proc. 38, 161-163, 1925.  
 iCole, Fla. Hort. Soc. Proc. f. 1925, 38, 153-158.  
 Cory & Eaton, Md. B. 308, 419-420, '29.  
 DeBusk, Fla. Ext. R. f. 1927, 48-49.  
 DeBusk, Fla. Grow. 35, 10, 31, 1927.  
 DeBusk, Fla. Ext. R. f. 1928, 48.  
 Dodds, Cal. Citrog. 13: 6, 201, 221, '28.  
 Hinds, La. Ext. C. 122, 15-17, 1929.  
 Hoerner, Ind. B. 310, 452-454, 1929.  
 Hume, Cultiv. Citrus Fruits, 1926, 452-453.  
 iKelly, Citrus Indus. 6; 4, 27-29, 1925.  
 Lenfest, Citrus Indus. 6; 4, 34, 1925.  
 Lenfest, Citrus Indus. 7: 4, 20, 1926.  
 iMiller, Fla. Ent. 12; 4, 49-56, 1928.  
 Miller, Fla. B. 203, 431-476, 1929.  
 Morton, Fla. Ent. 11, 9-13, 1925.  
 Newell, Fla. Hort. Soc. Proc. 38, 159-160, 1925.  
 iNewell, Fla. St. Plant. Bd. Quar. B. 11, 46-47, 1927.
- Newell, Fla. R. f. 1927-28, 42R-46R.  
 Thompson, Citrus Indus. 9; 6, 7-8, '28.  
 Thompson, Fla. St. Hort. Soc. Proc. 41, 38-43, 1928.  
 Thompson, Fla. St. Hort. Soc. Proc. f. 1929, 51-55.
- iTissot, Fla. Ent. 10, 26-27, 1926.  
 Tissot, Fla. Ent. 10, 56-57, 1927.  
 Walker, Citrus Indus. 6; 4, 11, 1925.  
 Watson, Citrus Indus. 5; 6, 20, 1924.  
 Watson, Fla. R. f. 1924, 80R-81R.  
 iWatson, Fla. Grow. 31; 20, 6-7, 1925.  
 Watson, Fla. R. f. 1925, 36R-37R.  
 Watson, Fla. Hort. Soc. Proc. 38, 138-145, 1925.  
 iWatson, La Hacienda 20, 376, 1925.  
 Watson, Amer. F. Gr. Mag. 46; 3, 43, 1926.  
 Watson, Citrus Indus. 7: 2, 29, 32, 1926.  
 Watson, Citrus Indus. 7: 4, 11, 1926.  
 Watson, Citrus Indus. 7: 5, 36, 1926.  
 Watson, Citrus Indus. 6; 4, 18, 1925.  
 Watson, Citrus Indus. 7: 9, 10, 33, '26.  
 Watson, Fla. B. 183, 361-363, 1926.  
 iWatson, Fla. R. f. 1926, 42R-44, 46R-48R.  
 Watson, Fla. St. Hort. Soc. Proc. 40, 73-76, 1927.  
 Watson, Fla. R. f. 1927, 43R-45R.  
 Watson, Citrus Indus. 9: 9, 3-4, 9, 25, 27, 1928.  
 Watson, Fla. R. f. 1928: 42-45.  
 Watson & Berger, Citrus Indus. 6: 2, 17, 1925.  
 Watson & Berger, Fla. P.B. 365, '25, 2 p.  
 Watson & Berger, Fla. Dept. Agr. Quar. B. 39: 3, 152-154, 1929.  
 iWatson & Beyer, Citrus Indus. 5, 11, 30-31, 1924.  
 iWatson & Beyer, Fla. B. 174, 1925, 96 p.  
 Watson & Ruprecht, Cit. Indus. 6: 11, 19, 1925.  
 Westmoreland, Fla. Ent. 11, 53, 1928.  
 Whittington, Citrus Indus. 6; 6, 1925.  
 Woglum, Cal. Cit. 11: 1, 26, 1925.  
 Woglum, Cal. Fr. Gr. Exch. B. 4, 25, 1928.  
 Woglum, LaFollette & Landon, Cal. Fr. Gr. Exch. B. 4, 25, 1927.

- Yothers, Citrus Indus. 6: 3, 27, 1925.  
 Yothers, Fla. Ent. 10: 1, 3, 1926.  
 Yothers, Fla. St. Hort. Soc. Proc. 39, 169-171, 1926.  
 Yothers & Cole, Citrus Indus. 5; 10, 6, 1924.  
 Yothers & McBride, Fla. St. Hort. Soc. Proc. 38, 148-152, 1925.  
 Yothers & McBride, Fla. St. Hort. Soc. Proc. 39, 169-170, 1926.
- Aphis spiraeicola—Florida**  
 Watson, Fla. Grow. 32; 17, 5, 1925.  
 Watson, Fla. St. Hort. Soc. Proc. 39, 159-164, 1926.  
 Yonge, Fla. St. Plant Bd. Quar. B. 11, 17-20, 1927.
- Aphis spiraeicola—Fungus diseases**  
 Gilbert & Kuntz, Fla. St. Pl. Bd. Quar. B. 10; 1-2, 1-6, 1926.  
 Hampton, Cit. Indus. 6; 11, 18, 1925.  
 Watson, Fla. Grow. 32; 13, 8, 1925.  
 ———Fla. Ent. 10, 25, 1926.
- Aphis spiraeicola—Parasites**  
 Cole, J. Ec. Ent. 18, 219, 1925.  
 Thompson, Fla. Ent. 10, 40-46, 1926.  
 Watson, Fla. St. Hort. Soc. Proc. 39, 159-164, 1926.  
 ———Fla. Ent. 12, 6-7, 1928.  
 Cole, Fla. Grow. 32: 1, 7, 1925.
- Aphis spiraeicola—Wisconsin**  
 Gilbert, Fla. Hort. Assoc. Proc. 38, 164-167, 1925.
- Aphis tuberculata**  
 Quaintance & Baker, U. S. F. B. 1128; rev. Apr. 1926, 18.
- Aphis varians**  
 Patch, Maine B. 336, 1-5, 1927.  
 iQuaintance & Baker, U. S. F. B. 1128, rev. Apr. 1926, 24.
- Aphobetoideus comperei**  
 ibSmith & Compere, Cal. Univ. Pub. Ent. 4, 312-317, 1928.
- Aphodius fimetarius**  
 Hayes, Ann. Ent. Soc. Amer. 21, 287, '28.
- Aphodius granarius**  
 iJones, J. Agr. Res. 38, 629-632, 1929.  
 iJones, Science 68, 512-513, 1928.
- Aphodius gravis**  
 nFall, Can. Ent. 59, 137-138, 1927.
- Aphodius pardalis**  
 Downes, Proc. Ent. Soc. B. C. 25, 17, 1928.  
 Downes, Ont. Ent. Soc. R. 58, 59-61, 1928.
- Aphodius spp.—Key**  
 nBrown, Can. Ent. 59, 166-167, 1927.  
 nBrown, Can. Ent. 60, 14-20, 25-39, 89-90, 301-307, 1928.  
 nBrown, Can. Ent. 61, 87-89, 205-210, 227-231, 1929.
- Aphodius subterraneus**  
 Schott, Bklyn. Ent. Soc. B. 21, 17, 1926.
- Aphoebantus clauseni, serratus**  
 nAldrich, P.U.S.N.M. 74; 2, 1-2, 1928.
- Aphonomorphus vitiensis**  
 Caudell, Iowa Univ. Stud. 11; 3, 14, '27.
- Aphricus tenuis**  
 nFall, Psyche 35, 144-145, 1928.
- Aphrophila chilena**  
 nAlexander, Ann. Ent. Soc. Amer. 21, 640-641, 1928.
- Aphrophora parallela**  
 Bauer, Flower Grow. 13, 570, 1926.  
 Peirson, Me. For. Serv. B. 5, 101, '27.
- Aphrophora princeps**  
 nWalley, Can. Ent. 60, 188, 1928.
- Aphrophora protocalla**  
 niCockerell, P.U.S.N.M. 68; 5, 8-9, 1925.
- Aphrophora punctipes**  
 nWalley, Can. Ent. 60, 191, 1928.
- Aphrophora salicis**  
 iMetcalf & Barber, Psyche, 36, 51-58, 1929.  
 Webber, J. Ec. Ent. 20, 308, 1927.
- Aphrophora saratogensis**  
 Smith, La. Ext. C. 113, 33, 1928.
- Aphrophora spp.—America**  
 Walley, Can. Ent. 60, 184-192, 1928.
- Aphrosylus praedator**  
 iSaunders, Ann. Ent. Soc. Amer. 21, 540-542, 1928.
- Aphthona insolita**  
 Blatchley, Can. Ent. 57, 168, 1925.
- Aphthona schaefferi**  
 nBlatchley, Ent. News 38, 144, 1927.
- Aphycus claviger**  
 Compere, Cal. Univ. Pub. Ent. 4; 1, 29, 1926.



**Aphycus (Euaphycus) flavus**

Dozier, Porto Rico Dept. Agr. J. 9,  
362, 1925.

**Aphycus helvolus**

niCompere, Cal. Univ. Pub. Ent. 4; 1,  
25-28, 1926.

**Aphycus lounsburyi**

Smith, Cal. Cit. 9, 312, 1925.  
Smith, Citrus Leaves, 5; 8, 2, 1925.  
iSmith, Cal. Cit. 11, 426, 1926.  
Smith, J. Ec. Ent. 19, 297, 1926.

**Aphycus quinque-guttatus**

nGirault, Ins. Insc. Mens. 13, 93, 1925.

**Aphycus spp.**

Insley, Cit. Indus. 3; 11, 14-15, 1922.  
Woglum, Cal. Cit. 11; 5, 167, 1926.  
——Cal. Cit. 11, 166, 1926.

**Apiochaeta aletiae**

ibBaldus, Ohio J. Sci. 28, 237-245,  
1928.

**Apiomerus crassipes (Assassin bug)**

——Am. B. J. 65, 164, 1929.

**Apiomerus pilipes**

Uribe, J. Parasitol 12, 213-215, 1920.

**Apion alaskanum**

nFall, Pan-Pac. Ent. 2, 205-207, 1926.

**Apion bishoffi**

nFall, Bklyn. Ent. Soc. B. 20, 86, 1925.

**Apion cyanitinctum**

nFall, Can. Ent. 59, 141, 1927.

**Apion diffractum**

nFall, Bklyn. Ent. Soc. B. 20, 87, 1925.

**Apion dilaticolle**

nFall, Bklyn. Ent. Soc. B. 20, 87, 1925.

**Apion speculiferum**

nFall, Can. Ent. 59, 140-141, 1927.

**Apis mellifica (Honey bee)\***

ibAlpatov, Biol. Bul. 55, 209-234, 1928.  
iArbuckle, J. Elisha Mitchell Sci. Soc.  
41, 47-63, 1925.  
Bertolf, J. Ec. Ent. 18, 380, 1925.  
Bishop, Briggs & Ronzan, J. Biol.  
Chem. 66, 77-87, 1925.  
bBrown, Amer. Mus. Nov. 304, '28, 5 p.  
ibBurnside, J. Ec. Ent. 21, 379-386, 1928.  
Burrill, Science 62, 134, 1925.  
iChamplain, Nature Mag. 12; 2, 95-99,  
1928.  
Essig, Insects of Western No. Amer.  
1926, 904-906.

Fernald, Applied Ent. ed. 2, 366-371, '26.  
Gubin, Internat. Cong. Ent. 4, Tr. 2,  
960-963, 1929.

Hootman, Mich. Hort. Soc. R. 58, 39-  
47, 1929.

Lyndie, U. S. D. A. B. 1328, 1925, 38 p.  
iMilum, Am. Bee J. 65, 368, 1925.

Park, Iowa St. Hort. Soc. Trans. 59,  
354, 1925.

Parker, J. Ec. Ent. 18, 587-590, 1925.

Parker, J. Ec. Ent. 19, 161-163, 1926.

Parks & Alex, Tex. C. 35, 1925, 19 p.

iPellett, Nature Mag. 8; 1, 39-41, 1926.

ibPhillips, J. Agr. Res. 35, 385-452,  
1927.

iPhillips, Honey Bees & Fairy Dust,  
1926, 213 p.

iWilson & Milum, Wis. Res. B. 75,  
1927, 47 p.

iSnodgrass, Anat. of Honeybee, 1925,  
327 p.

**Apis mellifica and pollination**

Hutson, Amer. Cranb. Gr. Assoc.  
Proc. 57, 10-11, 1926.

Hootman, Mich. St. Hort. Soc. R. 58,  
39-42, 1928.

Hutson, Am. Cranb. Grow. Assoc.  
Proc. 59, 19, 1929.

Oertel, Gleanings in Bee Culture, 54,  
294-296, 1926.

iSheppard, No. Dak. B. 211, 52-56, '27.  
Slocum, West. Frt. Flow. & Garden,  
8: 3, 6-7, 1926.

iVansell, Cal. C. 301, 1926, 12 p.

ibWhitcomb & Wilson, Wis. Res. B. 92,  
1929, 27 p.

Wilson, S. D. R., 41, 19, 1928-9.

**Apis mellifica and fruit growing**

Bowles, Amer. Bee. J. 64, 558, 1924.

Cox, Better Fruit 21; 10, 7, 22, 1927.

Davis, Am. Fruit Grow. 46, 12, 1926.

iDietz, Ind. Dept. Conserv. Div. Ent.  
Pub. 52, 1925, 20 p.

bHutson, N. J. B. 431, 1926, 32 p.

**Apis mellifica & saprophytic fungi**

Burnside, Mich. Acad. Sci. Papers 8,  
59-86, 1928.

**Apis mellifica—Appendage**

iPhillips, N. Y. C. M. 121, 1929, 52 p.

- Apis mellifica*—Brood rearing  
ibNolan, J. Ec. Ent. 21, 392-403, 1928.
- Apis mellifica*—Controlled mating  
ibWatson, Quart. Rev. Biol. 3, 377-390, 1928.
- Apis mellifica*—Malpighamoeba in  
iBulger, J. Ec. Ent. 21, 376-379, 1928.
- Apis mellifica*—Poisoning  
Vansell, J. Ec. Ent. 19, 133-136, 1926.
- Apis mellifica*—Pollen collection  
ibParker, N. Y. C. M. 98, 1926, 55 p.
- Apis mellifica*—Respiratory exchange  
Vansell, J. Ec. Ent. 22, 517-518, 1929.
- Apis mellifica*—Sex forms  
Nolan, J. Wash. Acad. Sci. 17, 177, '27.
- Apis mellifica*—Time factors and food acquisition  
ibPark, Iowa Res. B. 108, 1928, 185-225.
- Apis mellifica*—Variation  
Alpatov, Quar. Rev. Biol. 4, 1-58, 1929.
- ibDakessian, Ann. Ent. Soc. Amer. 22, 168-174, 1929.
- Apis mellifica*—Visual acuity  
ibHecht, J. Gen. Physiol. 12, 727-760, '29.  
iHecht & Wolf, Proc. Nat. Acad. Sci. 15, 178-185, 1929.
- Aplastus* spp.  
nFall, Psyche, 35, 141-143, 1928.
- Aplatygerrhus dentatifemur*  
nGirault, Ins. Insc. Mens. 14, 60, 1926.
- Aplomerus decorus*  
nViereck, Can. Ent. 58, 55-56, 1926.
- Apoda maxima*  
nDyar, J. Wash. Acad. Sci. 17, 544, '27.
- Aporinellus semirufus*  
nBanks, Psyche, 36, 326-327, 1929.
- Apotettix eurycephalus*  
biNabours, Kans. Manhattan Tech. B. 17, 5-231, 1925.
- \*Apple aphid, *see* *Aphis pomi*
- \*Apple and Thorn skeletonizer, *see* *Hemero-phila pariana*
- Apple blister mite, *see* *Eriophyes pyri*
- \*Apple curculio, *see* *Tachypterellus quadrigibbus*
- \*Apple flea weevil, *see* *Orchestes pallidicornis*
- \*Apple fruit moth, *see* *Argyresthia conjugella*
- \*Apple grain aphid, *see* *Rhopalosiphum prunifoliae*
- Apple insects  
Borden, Pan-Pac. Ent. 3, 66-67, 1926.  
Borden, Pan-Pac. Ent. 3, 91-92, 1926.  
Bourne, Mass. Fruit Grow. Assoc. R. 35, 120, 1929.  
Bourne, et al, Mass. Ext. Leaf. 131, 1929, 12 p.  
Brittain, Nova Scotia Dept. Nat. Res. B. 12, 20-58, 1927.  
Brown, Gard. Chronicle 30, 178, 1926.  
Burritt, Amer. Agr. 123; 12, 6, 1929.  
Cory, Md. St. Hort. Soc. R. 29, 185-186, 1927.  
Crawford, N. Car. Dept. Agr. B. Jan. 1926, 16 p.  
Crosby, et al, N.Y.C.B. 498, 7-45, 1929.  
Gaston, Mich. Sp. B. 160, 1927, 42 p.  
Gould, Amer. Fruit Grow. Mag. 45; 7, 10, 1925.  
Headlee, N. J. St. Hort. Soc. Proc. 54, 44-46, 1928.  
Hedrick, N. Y. (Geneva) R. 48, 52-53, 1929.  
Herrick, Rur. N. Y. 85, 7, 1926.  
Hockey, N. S. Frt. Grow. Assoc. Rept. 63, 52-59, 1926.  
Hough, Va. St. Hort. Soc. Proc. 32, 113-114, 1927.  
Lockett, C. Gentl. 90; 36, 97, 1925.  
Lockett, Field Illus. 35, 37-39, 1925.  
Mason, Spraying, 266-290, 1928.  
Morrison, N. Y. Geneva R. 47, 44-46, 1928.  
Petch & Armstrong, Quebec Soc. Proc. Pl. R. 18, 93-95, 1926.  
Quaintance, La Hacienda 20, 217, 1925.  
Spittall, Proc. Acadian Ent. Soc. 10, 17-22, 1925.  
Thatcher, N. Y. Gen. R. 43, 39-40, 1924.  
Thatcher, N. Y. Gen. R. 45, 36-38, 1926.  
Zimmerman, Amer. Fruit Grow. Mag. 45; 12, 12, 1925.
- \*Apple leafhopper, *see* *Empoasca mali*
- Apple leaf-rollers  
Frost, J. Ec. Ent. 19, 813-819, 1926.
- \*Apple leaf skeletonizer, *see* *Psorosina hammondi*

- \*Apple leaf trumpet miner, *see* *Tischeria malifoliella*
- \*Apple maggot, *see* *Rhagoletis pomonella*
- \*Apple redbug, *see* *Lygidea mendax*
- \*Apple seed chalcid, *see* *Syntomaspis druparum*
- \*Apple twig beetle, *see* *Hypothenemus hispidulus*
- \*Apple twig borer, *see* *Amphicerus bicaudatus*
- Apple twig pruner, *see* *Hypermallus villosus*
- Apricot insects  
Smith & Dunning, Cal. Cult. 73, 507, '29.
- Aprostocetus canadensis  
Detmers, Ohio B. 414, 26-29, 1927.
- Aprostocetus handeli  
Girault, Ins. Insc. Mens. 14, 130-131, '26.
- Apteromechus microstictus, texanus  
nFall, Bklyn. Ent. Soc. B. 20, 88, 123, '25.
- Apterygota  
biFolsom, P.U.S.N.M. 72; 6, 1-16, 1927.
- Aquatic biology—Prairie  
ibJewell, Ecol. 8, 289-298, 1927.
- Aquatic Hemiptera  
Clark, Can. Ent. 58, 203-205, 1926.  
Hungerford & Beamer, Ent. News 36, 295-299, 1925.  
iHungerford, Bklyn. Ent. Soc. B. 21, 194-200, 1926.  
Hungerford, Ent. News 39, 156-157, '28.  
Torre-Bueno, Bklyn. Ent. Soc. B. 22, 29-35, 1927.  
Torre-Bueno, Bklyn. Ent. Soc. B. 24, 30-31, 1929.
- Aquatic insects  
Alexander, Ill. Nat. Hist. Survey B. 15, 8, 439-535, 1925.  
biDodds, & Hisaw, Ecology, 6, 123-137, 380-390, 1925.  
McAtee, Ecology 6, 288-302, 1925.  
iNeedham, Amer. Game, 18, 77-78, 1929.  
iNeedham & Needham, Guide to study of fresh-water biology, 1927, 88 p.  
iSavin, Nat. Hist. N.Y. 26, 185-199, '26.  
Sullivan, Ecology 10, 322-325, 1929.
- Aquatic insects—Egg parasites  
biMartin, Ent. Amer. 8, 105-156, 1927.
- Aquatic insects—Jasper Park Lakes  
Neave, Cont. Can. Biol. & Fish 4 (15), 187-195, 1929.
- Arachnis aulaea  
Barnes & Benjamin, Pan-Pac. Ent. 3; 1, 17, 1926.
- Arachnis picta  
Englehardt, Bklyn. Ent. Soc. B. 23, 91-92, 1928.
- Arachnis pompeia  
Barnes & Benjamin, Pan-Pac. Ent. 3; 1, 17-18, 1926.
- Arachnocoris albomaculatus  
biMyers, J.N.Y. Ent. Soc. 33, 136-145, '25.
- Aradus spp.  
biEsaki, Bklyn. Ent. Soc. B. 21, 29-31, 1926.  
niParshley, Can. Ent. 61, 245-246, 1929.  
nVanDuzee, Pan-Pac. Ent. 3, 139-141, 1927; 4, 68, 1927; 5, 186, 1929.
- Aradus paganicus  
niParshley, Can. Ent. 61, 244-246, 1929.
- Aradus robustus  
Torre Bueno, Bklyn. Ent. Soc. B. 24, 221, 1929.
- Araecerus fasciculatus (Coffee-bean weevil)  
Back & Cotton, U. S. F. B. 1260; rev. Dec. 1925, 9 p.  
Blatchley, J. N. Y. Ent. Soc. 33, 88, 1925.
- Arborvitae aphid, *see* *Lachnus thujaefalinus*
- Arborvitae leaf miner, *see* *Argyresthia thuiella*
- Arborvitae insects  
Peirson, Me. For. Serv. B. 5, 26-27, '27.
- Archana laeta, oblonga, subflava  
Bird, J.N.Y. Ent. Soc. 33, 185-187, 1925.
- Archilestes—Key to species  
bSeemann, J. Ent. & Zool. 19, 8, 1927.
- Archips, *see* *Cacoecia*
- Archytas analis  
ibiAllen, J. Agr. Res. 32, 417-435, 1926.
- Archytas antillicolla  
niCurran, Amer. Mus. Nov. 260, 2-3, '27.
- Archytas cirphiae  
Swezey, J. Ec. Ent. 19, 718, 1926.

- Archytas piliventris*  
iLuginbill, U. S. D. A. Tech. B. 34, 80, 1928.
- Archytas rufiventris*  
niCurran, Can. Ent. 60, 280, 1928.
- Archytas spp., revision*  
Curran, Can. Ent. 60, 218-226, 249-256, 275-280, 1928.
- Archytas willistoni*  
nCurran, Amer. Mus. Nov. 176, 9-10, '25.
- Arctia caja*  
Barnes & Benjamin, So. Cal. Acad. Sci. B. 26, 5, 1927.
- Arctiidae*  
Barnes & Benjamin, Pan-Pac. Ent. 3; 1, 16-18, 1926.  
Barnes & Benjamin, Pan-Pac. Ent. 4; 2, 87-88, 1927.  
iChamplain, Nat. Mag. 9, 353, 1927.  
Webb, Cal. Dept. Agr. Sp. Pub. 54, 24, 1925.
- Arctocorixa atopodonta*  
Hungerford, Bklyn. Ent. Soc. B. 22, 35, 1927.
- Arctocorixa beameri*  
niHungerford, Ann. Ent. Soc. Amer. 21, 142-143, 1928.
- Arctocorixa bilineata*  
iWalley, Can. Ent. 61, 34, 1929.
- Arctocorixa—Identity of*  
iWalley, Can. Ent. 61, 34, 1929.
- Arctocorixa interrupta*  
biBecker, Jour. Parasit. 14, 85-87, 1927.
- Arctocorixa martini*  
nHungerford, Ent. News 39, 157, 1928.
- Arctocorixa penniensis*  
niHungerford, Can. Ent. 60, 226-230, '28.
- Arctocorixa spp.*  
nCurran, Can. Ent. 58, 215-216, 268-270, 1926.  
niHungerford, Can. Ent. 58, 270-272, '26.  
inHungerford, Bklyn. Ent. Soc. B. 20, 18-22, 142-144, 1925.  
niHungerford, Bklyn. Ent. Soc. B. 23, 178-179, 1928.  
Hungerford, Bklyn. Ent. Soc. B. 21, 196-198, 1926.
- Argas miniatus (Fowl tick)\**  
Bushnell & Brandly, Kans. Manhat. B. 247, 85, 1929.
- Chandler, Animal Parasites ed. 3, 364, 1925.
- Dunn, Amer. Jr. Trop. Med. 9, 506, '29.
- Kaupp, O. K. Poult. J. 18, 445, 1929.
- Parman, J. Ec. Ent. 19, 644-648, 1926.
- Parman, Farm & Ranch, 45; 30, 2, 17, 1926.
- Argas persicus, see Argas miniatus*
- Arge cingulata*  
Rohwer, P.U.S.N.M. 68; 8, 2, 1925.
- Arge criddlei*  
niGarlick, Can. Ent. 59, 182, 1927.
- Arge imitans*  
niKnight, Can. Ent. 59, 182-183, 1927.
- Arge spp.*  
nRohwer, P.U.S.N.M. 68; 8, 3-4, 1925.
- Argema mittrei*  
Eisenhardt, Bklyn. Ent. Soc. B. 24, 192, 1929.
- \**Argentine ant, see Iridomyrmex humilis*
- Argia—Species—Key*  
bSeeman, J. Ent. & Zool. 19, 11-12, 27.
- Argiopinae*  
iShaw, Flower Grow. 16; 1, 33-34, 1929.
- Argoporis impressa*  
nBlaisdell, Proc. Cal. Acad. Sci. ser. 4, 14; 14, 330-331, 1925.
- \**Argus tortoise beetle, see Cheylmorpha cassidea*
- Argynnis atlantis*  
Clark, Psyche, 32, 294, 1925.
- Argynnis cybele*  
Clark, Psyche, 33, 2, 1926.
- Argynnis eurynome*  
nGunder, Can. Ent. 59, 287, 1927.
- Argynnis idalia, lais*  
niGunder, Can. Ent. 59, 286, 1927.
- Argynnis mormonia, montivaga*  
nGunder, Can. Ent. 59, 286, 287, 1927.
- Argynnis nevadensis*  
nGunder, Can. Ent. 59, 287, 1927.  
nMcDunnough, Can. Ent. 61, 106-107, '29.
- Argynnis nokomis*  
Poling, Can. Ent. 58, 79, 1926.
- Argynnis pales*  
nNakahara, Ins. Insc. Mens. 14, 48, '26.
- Argyra spp.*  
nVanDuzee, P.U.S.N.M. 66; 23, 10-41, '25.
- Argyra violacea*  
niVanDuzee, P.U.S.N.M. 74; 10, 23, '28.

- Argyrectis tessimalis, trespassalis*  
nDyar, Ins. Insc. Mens. 14, 147, 148, '26.
- Argyresthia laricella*  
Peirson, Me. For. Serv. B. 5, 78, 1927.
- Argyresthia thuiella* (Arborvitae leaf miner)\*  
iBritton & Zappe, Conn. B. 292, 161, '27.  
Peirson, Me. For. Serv. B. 5, '78, 1927.  
Pettit, Mich. St. Bd. Agr. B. 63, 217, 1924.  
iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 32-33, 1926.
- Argyromoeba tigrina*  
St. Louis Acad. Sci. Tr. 25, 231, 235, 1927.
- Argyroploce abietana* (Spruce tortrix)  
Felt, N. Y. St. Mus. B. 274, 167-168, 1928.  
iMcDaniel, Mich. Quar. B. 11: 1, 25-26, 1928.  
iPettit, Mich. Ent. R. f. 1927, 14-15, '27.  
iPettit, Mich. St. Bd. Agr. R. 66, 350-351, 1927.
- Argyroploce heinrichana*  
iMcDunnough, Can. Ent. 59, 33, 1927.  
iMcDunnough, Can. Ent. 61, 270-271, 1929.
- Argyroploce variegana*  
Gillliatt, Ont. Ent. Soc. R. 58, 33-34, 1928.  
Spittall, Proc. Acadian Ent. Soc. 10, 62, 1925.  
Spittall, Ont. Ent. Soc. R. 58, 11, 1928.
- Argyrotaenia* (Tortrix) *franciscan*  
Borden, Cal. R. f. 1926, 64-66.  
Merrill, Cal. R. f. 1925-26, 64-65.  
Merrill, Cal. R. f. 1927-28, 69-70, 1929.  
Merrill, Cal. R. f. 1927-28, 72, 1929.
- Argyrotaenia pinitubana*  
Howard, U. S. D. A. Ent. R. f. 1925, 31.
- Argyrotaenia velutinana*, *see* *Eulia velutinana* (Red-banded leaf roller)
- Argyrotome paraguayaria*  
nSchaus, Proc. Ent. Soc. Wash. 29, 108, 1927.
- Argyrotome prattaria*  
nSchaus, Proc. Ent. Soc. Wash. 29, 107-108, 1927.
- Arhopalus fulminans*  
Champlain, Kirk & Knoll, Ent. News 36, 108, 1925.
- Arichelonus secundus*  
nViereck, Can. Ent. 58, 55, 1926.
- Arilus cristatus* (Wheel bug)\*  
Metzger, J. Ec. Ent. 21, 431-432, 1928.  
iWoodward, Texas, Dept. Agr. B. 81, 183, 1925.
- Aristotelia amelanchierella*  
nBraun, Trans. Amer. Ent. Soc. 51, 189-190, 1925.
- Aristotelia argentifera*  
Keifer, Pan-Pac. Ent. 3, 162, 1927.
- Aristotelia corallina*  
Bottimer, J. Agr. Res. 33, 811, 1926.
- Aristotelia devexella*  
nBraun, Can. Ent. 57, 124-125, 1925.
- Aristotelia planitia*  
nBraun, Trans. Amer. Ent. Soc. 51, 190, 1925.
- Arizona navel orange worm*, *see* *Myelois venipars*
- \**Arizona pine beetle*, *see* *Dendroctonus arizonicus*
- Armidiellidium vulgare* (Greenhouse sowbug)  
Severin, So. Dak. Ent. R. 15, 62, 1925.
- Armitermes* gen. and spp.  
Snyder, Proc. U. S. N. M. 68, art. 14, 21-24, 1926.
- Armitermes* (Rhyncotermes) *major*  
nSnyder, J. Wash. Acad. Sci. 15, 160, '25.
- Army ant*, *see* *Dorylus helvolus*
- \**Army cutworm*, *see* *Chorizagrotis auxiliaris*
- \**Armyworm*, *see* *Cirphis unipuncta*
- Arpediothrips*—n. gen., *mojave*  
nHood, Proc. Biol. Soc. Wash. 40, 197-198, 1927.
- Arphia frigida*  
Buckell, Proc. Ent. Soc. B.C. 25, 12, '28.
- Arphia sulphurea*  
Hubbell, Fla. Ent. 9, 44, 1925.
- Arphnus profectus*  
nVanDuzee, Pan-Pac. Ent. 5, 190, 1929.
- Arphnus tristis*  
nVanDuzee, Pan-Pac. Ent. 5, 189-190, '29.
- Arsenate of calcium*, *see* *Insecticides*, *Arsenate of calcium*

- Arsenate of lime, *see* Insecticides, Arsenate of calcium
- Arsenic content of sprayed apples  
Hartzell & Wilcoxon, Boyce-Thompson, Inst. Pl. Res. Prof. Paper 5, 27-35, 1927.
- Arthmius (*Arthmius*) *delicatus*  
nFletcher, Trans. Amer. Ent. Soc. 54, 70-71, 1928.
- Arthmius elegantulus*, *laevipennis*, *mag-nus*  
nFletcher, Trans. Amer. Ent. Soc. 54, 69-73, 1928.
- Arthropoda  
Aaron, Sci. Amer. 135, 352-353, 1926.  
Baerg, Ann. Ent. Soc. Amer. 18, 471-478, 1925.  
bBequeart, J. Parasitol. 11, 201-211, '25.  
iChandler, Animal Parasites, ed. 3, 322-330, 1925.  
Cockerell, Nat. Hist. Colo. 172-185, '27.  
Root, United Fruit Co. Med. Dept. R. 13, 207-209, 1925.
- Arthropoda and tularaemia  
ibFrancis, Internat. Cong. Ent. 4, Tr. 2, 929-944, 1929.
- Arthropoda and disease  
Strong et al, Harvard Inst. Trop. Biol. & Med. Cont. 4, 148-154, 1926.
- Arthropoda cilia  
bFasten, Ann. Ent. Soc. Amer. 21, 669-670, 1928.
- Arthropoda—Poisonous  
bBaerg, Internat. Cong. Ent. 4, Tr. 2, 418-438, 1929.
- Artichoke plume moth, *see* *Platyptilia carduidactyla*
- Artona catoxantha*  
Aldrich, Proc. Ent. Soc. Wash. 27, 13, 1925.
- Arzama obliqua*  
iNeedham, Frost & Tothill, Leaf-min-ing insects, 1928, 176-178.
- Asaphes americana*  
biGriswold, Ann. Ent. Soc. Amer. 22: 449-452, 1929.  
Spencer, Ann. Ent. Soc. Amer. 19, 145-147, 1926.
- Asacropus palmarum*—Arizona 1924  
Skinner, Ariz. Com. Agr. Hort. R. 15-16, 57, 1927.
- Asaropoda anomala*  
nCockerell, Amer. Mus. Nov. 346, 15, '29.
- Ascogaster carpocapsae*  
Dozier & Butler, J. Ec. Ent. 22, 954-957, 1929.  
Newcomer, J. Ec. Ent. 21, 221, 1928.  
Pettit, Mich. Bd. Agr. R. 64, 217-225, 1925.
- Ascogaster provancheri*  
Felt, N. Y. St. Mus. B. 274, 168, 1928.
- Asemosyrphus* spp.—Key  
Curran & Fluke, Wis. Acad. Sci. Tr. 22, 248-52, 1926.
- Aserica*—gen.  
Arrow, Proc. Ent. Soc. Wash. 29, 69-70, 1927.
- Aserica castanea* (Asiatic garden beetle)  
Duryee, N. J. Dept. Agr. Ann. R. 12, 90, 1927.  
nEngelhardt, Brklyn. Ent. Soc. B. 23: 68, 1928.  
Felt, J. Ec. Ent. 20, 64, 1927.  
Felt, N. Y. St. Hort. Soc. Proc. 73, 17, 1928.  
biFelt, N.Y. St. Mus. B. 274, 142-144, '28.  
iHallock, J. Ec. Ent. 22, 297-299, 1929.  
Hartzell, J. Ec. Ent. 19, 868, 1926.  
Lipman, N. J. R. 49, 43, 1928.  
Smith, N. J. Dept. Agr. Ann. R. 12, 101-102, 1927.  
Nat. Nurserym. 36: 10, 10, 1929.  
U.S.D.A., P.Q.C.A., S.R.A., 98, 3, '29.
- Ash aphid, *see* *Pemphigus fraxinifolii*
- Ash borer, *see* *Podosesia fraxini*
- Ash flower gall, *see* *Eriophyes fraxini-flora*
- \*Ash-gray blister beetle, *see* *Macrobasis unicolor*
- Ash insects  
Peirson, Me. For. Serv. B. 5, 31, 1927.
- Ash tree borer, *see* *Podosesia fraxini*
- Ashtonipsithyrus* new subgenus  
Frison, Trans. Amer. Ent. Soc. 53, 69-70, 1927.
- \*Asiatic beetle, *see* *Anomala orientalis*
- Asiatic garden beetle, *see* *Aserica castanea*

## Asilidae

- Bromley, Ann. Ent. Soc. Amer. 22, 272-296, 1929.  
 biBrown, Trans. Amer. Ent. Soc. 54, 295-320, 1928.  
 iChamplain, Nat. Mag. 9, 408, 1927.  
 Osterberger, Sugar B. 7: 11, 11-12, '29.  
*Asilostoma atriceps* 6, *flavifacies* 7, *pal-lipes* 5-6, *palpalis* 4-5, nMalloch, P.U.S.N.M. 73; 23, 4-7, 1928.  
*Asilus (Tolmerus) aurimystax*  
 nBromley, Amer. Mus. Nov. 336, 3, '28.  
*Asilus bulatus*, *loewi*, *ramsdeni*  
 niBromley, Ent. Soc. Amer. Ann. 22, 288-289, 1929.  
*Asilus mandarinus*  
 nBromley, Amer. Mus. Nov. 336, 1-3, '28.  
*Asilus sericeus*  
 iBritton, Conn. B. 285, 278-279, 1927.  
*Asilus snowi*  
 Petch & Hammond, Ont. Ent. Soc. R. 56, 90, 1926.  
*Asilus* spp. on white grubs  
 Petch & Hammond, Ont. Ent. Soc. R. 55, 27, 1925.  
*Asilus yepingensis*  
 nBromley, Amer. Mus. Nov. 336, 2-3, '28.  
*Aslauga lamborni*  
 Clark, Smithsonian Inst. R. f. 1925, 476, 1926.  
 \**Asparagus* beetle, *see* *Crioceris asparagi*  
*Asparagus* insects  
 iMote, Oreg. C. 65, 21, 1926.  
 \**Asparagus* miner, *see* *Agromyza simplex*  
*Asphondylia bea*  
 iNeedham, J. Ent. & Zool. 17, 17-19, 26, 1925.  
*Asphondylia opuntiae* (Cactus midge)  
 Hamlin, Pan-Pacific Ent. 2, 103-104, 1926.  
*Aspicolpus grandior*  
 nBrues, Proc. Amer. Acad. Arts & Sci. 61, 263-264, 1926.  
*Aspicolpus pictipennis*  
 nBrues, Proc. Amer. Acad. Arts & Sci. 61, 264-265, 1926.  
*Aspidiotiphagus citrinus*  
 iDozier, Porto Rico Dept. Agr. J. 10: 3 & 4; 275-276, 1926.  
 Vandenberg, Guam R. f. 1925, 18, 1926.  
*Aspidiotiphagus lounsburyi*  
 Dozier, Porto Rico Dept. Agr. J. 10: 3 & 4; 276-277, 1926.  
*Aspidiotus abietis* (Hemlock scale)  
 Peirson, Me. For. Serv. B. 5, 69, 1927.  
*Aspidiotus aesculi*  
 Essig, Insects of Western No. Amer. 1926, 311.  
*Aspidiotus ancyclus* (Putnam's scale)\*  
 Crowley, Wash. B. 230, 27-28, 1929.  
 Vorhies, Ariz. R. 34, 476, 1923.  
*Aspidiotus aurantii*, *see* *Chrysomphalus aurantii*  
*Aspidiotus cyanophylli*  
 Severin, So. Dak. Ent. R. 15, 26, 1924.  
*Aspidiotus destructor* (Coconut scale)  
 Vandenberg, Guam R. f. 1925, 17-18, 1926.  
 Vandenberg, Guam R. f. 1926, 16, 1928.  
*Aspidiotus ficus*, *see* *Chrysomphalus aonidium* (Florida red scale)\*  
*Aspidiotus hederæ* (Oleander scale)  
 Dean, Amer. Flor. 71: 42, 13, 1929.  
 Keen, Cal. Dept. Nat. Resources B. 7, 89, 1928,  
 iSchrader, Psyche, 36, 232-236, 1929.  
 Severin, So. Dak. Ent. R. 15, 26, 1924.  
 Trimble, Pa. Dept. Agr. B. 8: 2, 10, 1925; Gen. B. 480, 10-11, 1929.  
*Aspidiotus howardi* (Howard's scale)\*  
 Gillette & Langford, Colo. Ent. C. 46, 10, 1925.  
 Yetter, Colo. Ent. C. 51, 12, 1926.  
*Aspidiotus lantaniae* (Lantania scale)  
 Morrill, Cal. Dept. Agr. Sp. Pub. 73, 71, 1927.  
 Severin, So. Dak. Ent. R. 15, 26, 1924.  
*Aspidiotus longifrons*  
 Reinhard, Nat. Mag. 13, 157, 1929.  
 ‡*Aspidiotus perniciosus* (San Jose scale)\*  
 Bailey, Vt. Dept. Agr. C. 5, 1924, 4 p.  
 Bailey, Comm. Agr. Vt. Bien. R. 13, 48-49, 1926.  
 Bourne, Mass. B. 226, 36-39, 1926.  
 Brannon, N. C. Ext. C. 153, 3, 1925.  
 iBreakey, Kan. Ent. Com. Bien. R. 10, 6-18, 1927.

- iBritton & Zappe, Conn. B. 292, 137, '27.  
iChambers, Wis. Dept. Agr. B. 73, 1926, 8 p.  
Chambers, Wis. Dept. Agr. B. 82, 79-80, 1927.  
Christie, Ind. R. 40, 38, 1927.  
Crawford, N. C. Dept. Agr. B. Jan. 1926, 6.  
Crawford, New Mex. R. 37, 17, 1927.  
Crosby, et. al., N.Y.C.B. 498, 22-23, '29.  
Davis, Ind. Acad. Sci. Proc. 41, 311, '25.  
Eddy, Ohio J. Sci. 27, 199, 1927.  
Flint, Ind. Hort. Soc. R. f. 1924, 15-22, 1925.  
Fracker, Wis. Dept. Agr. B. 69, 80-83, 1924; B. 82, 49, 1927.  
Garcia, New Mex. R. 36, 18-19, 1925.  
Garcia, New Mex. R. 39, 19-21, 1928.  
Gates, Kan. Ent. Com. Bien. R. 10, 18-25, 1927.  
iGillette & Langford, Colo. Ent. C. 46, 9, 1925.  
iGuyton & McCubbin, Pa. Dept. Agr. Gen. B. 441, 3, 1927.  
Houser, Ohio St. Hort. Soc. Proc. 58, 37-45, 1925.  
Howard, U.S.D.A. Ent. R. f. 1925, 2-3.  
Hunt, B. C. Dept. Agr. R. f. 1927. Q 24, 1928.  
Isely, Ark. Ext. C. 164, rev. May 1926, 2 p.  
McHatton & Firor, Ga. Ext. B. 357, 5-6, 1929.  
Newcomer, Idaho St. Hort. Assoc. Proc. 24, 24-25, 1924.  
Newcomer & Yothers, J. Ec. Ent. 22, 821-822, 1929.  
Pepper, Clemson Col., S. C. Wkly. News Notes 15: 28, 1927.  
Porter, Ind. Hort. Soc. Tr. 64, 59, '25.  
Quaintance, U. S. F. B. 1398, rev. Sept. 1929, 11-15.  
Regan, Wash. St. Hort. Assoc. Proc. 23, 69-70, 1927.  
Robertson, B. C. Dept. Agr. R. 19, K26, 1925.  
Robertson, B. C. Dept. Agr. R. 20, 24, 1926.  
Robertson, B. C. Dept. Agr. R. 22 Q 24, 1928.  
Ross, Can. Dept. Agr. Ent. Br. C. 37, 1925, 4 p.  
Ruggles, Minn. Hort. 53, 116-117, 1925.  
Ruhmann, B. C. Dept. Agr. R. 19, K39-K40, 1925.  
Ruhmann, B. C. Dept. Agr. R. 21, N. 40, 1927.  
iSnapp, U. S. F. B. 1557, 15-24, 1928.  
iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 48-49, 1926.  
Trimble, Pa. Dept. Agr. B. 8: 22, 11, 1925.  
Trimble, Pa. Dept. Agr. Gen. B. 480, 11, 1929.  
Watson, Fla. B. 183, 316-317, 1926.  
Williams, Ohio B. 382, 35, 1924.  
Yapp, Kans. Ent. Com. Bien. R. 11, 6-12, 1929.  
Yetter, Colo. Ent. C. 47, 15, 1925.
- Aspidiotus perniciosus—Oil emulsion**  
Alden, J. Ec. Ent. 18, 253-257, 1925.  
Alwood, Ohio St. Hort. Soc. Proc. 59, 87-88, 1926.  
Christie, Ind. R. 37, 24, 1924.  
biEyer & Crawford, N. Mex. B. 172, 1929, 20 p.  
Flint, Ind. Hort. Soc. Tr. 64, 15-22, 1925.  
Sanders, Ohio St. Hort. Soc. Proc. 59, 88, 1926.
- Aspidiotus perniciosus—Sprays**  
Abbott, J. Ec. Ent. 19, 858-860, 1926.  
Chandler, Flint & Huber, Ill. Nat. Hist. Surv. B. 16, 125, 1926.  
Dutton, Mich. Hort. Soc. R. 54, 74-77, 1925.  
Houser, Ohio Mo. B. 10, 1 & 2, 32, '25.  
Houser, J. Ec. Ent. 19, 94-95, 1926.  
Jardine, Oreg. Bien. Rept. 1924-1926, 99, 1926.  
iMerrill, Amer. Fruit Grow. Mag. 48: 2, 7, 1928.
- Aspidiotus pini**  
Kenn, Cal. Dept. Nat. Resources B. 7, 89, 1928.
- Aspidiotus rapax (Greedy scale)\***  
Severin, So. Dak. Ent. R. 15, 26, 1924.



*Aspidiotus rapax* *Cont'd*

Trimble, Pa. Dept. Agr. B. 8: 2, 11, 1925; Gen. B. 480, 11, 1929.

Woglum, Cal. Frt. Grow. Exch. B. 3, 14, 1926.

*Aspidiotus socialis*

niHoke, Ann. Ent. Soc. Amer. 20, 349-350, 1927.

*Aspidiotus* spp.—Key

Kessel, J. N. Y. Ent. Soc. 33, 26, 1925.

Assassin bugs, *see* Reduviidae

## Aster insects—Aphides

Murphy, Garden Club Amer. B. 5: 4, 93, 1929.

*Asterolecaniinae*—Maskell species

iMorrison & Morrison, P. U. S. N. M. 71: 17, 1927, 67 p.

*Asterolecanium*—genus

Morrison & Morrison, P. U. S. N. M. 71: 17, 3, 1927.

*Asterolecanium acaciae*

niMorrison, P. U. S. N. M. 71; Art. 17, 3-4, 1928.

*Asterolecanium epacridis*

iMorrison & Morrison, P. U. S. N. M. 71: 17, 4-5, 1927.

*Asterolecanium milliariis*

Galloway, U.S.D.A.B. 1329, 40, 1925.

*Asterolecanium styphellae*

iMorrison & Morrison, P. U. S. N. M. 71: 17, 5-7, 1927.

*Asterolecanium transversum*

niMorrison & Morrison, P. U. S. N. M. 71: 17, 7-8, 1927.

*Asterolecanium variolosum* (Golden oak scale)

iBritton & Zappe, Conn. B. 292, 151-152, 1927.

Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 49, 1926.

Trimble, Pa. Dept. Agr. Bulletin 8; 2, 4, 1925; Gen. B. 480, 4, 1929.

*Asterolecanium ventruosum*

iMorrison & Morrison, P. U. S. N. M. 71: 17, 1927.

*Asthena lucata*—Identity of

Barnes & Benjamin, Pan-Pacific Ent. 4, 6, 1927.

*Asthenopus* gen.

Needham & Murphy, Lloyd Lib. B. 24, 23, 1924.

*Astichus pulchrilineatus*

niGahan, P.U.S.N.M. 71; 4, 28-30, 1928.

*Astrothrips angulatus, constrictus*

nHood, Psyche 32, 50-52, 1925.

*Astrothrips pentatoma*

nHood, Proc. Ent. Soc. Wash. 27, 9, '25.

*Asyndetus spinosus*

nVanDuzee, Pan-Pacific Ent. 1, 153-155, 1925.

*Asyndetus flavitibialis*

niVanDuzee, P.U.S.N.M. 74:10,20-21,'25.

*Atacta argentifrons, crassiceps*

Aldrich, P.U.S.N.M. 66: 18, 30-31, '25.

*Ataenius solitarius*

nBlatchley, Can. Ent. 60, 69, 1928.

*Atalopetes campestris*

Comstock, S. Cal. Acad. Sci. B. 28, 20, 1929.

*Atarba (Atarba) amabilis*

nAlexander, Ann. Ent. Soc. Amer. 21, 113-114, 1928.

*Atarba (Atarba) angustipennis*

nAlexander, N. Y. Ent. Soc. Jour. 36, 57, 1928.

*Atarba aperta*

nAlexander, Ann. Ent. Soc. Amer. 19, 170-171, 1926.

*Atarba (Atarba) brevicornis*

nAlexander, Ann. Ent. Soc. Amer. 22, 781-782, 1929.

*Atarba mexicana*

nAlexander, Ann. Ent. Soc. Amer. 19, 170, 1926.

*Atarba picticornis*

iRogers, Fla. Ent. 10, 50-54, 1927.

*Atarba* spp.—Key

Alexander, Ann. Ent. Soc. Amer. 19, 171, 1926.

*Atarba (Atarba) tatei*

nAlexander, Ann. Ent. Soc. Amer. 22, 782-783, 1929.

*Ataxia alboscuteolata*

nFisher, Proc. U. S. N. M. 68, Art 22, 3-4, 1926.

*Ataxia brunneus*

nChamplain & Knull, Ent. News 37, 206-207, 1926.

- Ataxia uniformis*  
nFisher, P.U.S.N.M. 68; 22, 4-6, 1926.
- Ataxia variegata*  
nFisher, Amer. Novitates 174, 1-2, 1925.
- Ateloglossa calyptrata*  
nWest, J. N. Y. Ent. Soc. 33, 128, 1925.
- Ateloglossa cinerea*  
Packard, J. Ec. Ent. 22, 598, 1929.
- Ateloglossa glabra*  
nWest, J.N.Y. Ent. Soc. 33, 128-129, '25.
- Atelura manni*  
niCaudell, Proc. Ent. Soc. Wash. 27, 43-45, 1925.
- Atelurius incertus*  
niBanks, B. Mus. Comp. Zool. 69, 71-72, 1929.
- Athaes angustoriparius*  
Drake, Fla. Ent. 9, 39, 1925.
- Atherix* sp.  
iNeedham and Christenson, Utah B. 201, 26, 1927.
- Athetis distincta*  
nBarnes, Pan-Pac. Ent. 5, 10, 1928.
- Athetis indigena*  
nBarnes & Benjamin, Pan-Pac. Ent. 2, 20-21, 1925.
- Athous* sp.  
iHoerner, Colo, Ent. C. 47, 14, 1925.
- Athyroglossa evidens, freta, scabra*  
nCresson, Trans. Amer. Ent. Soc. 51, 238-239, 1925.
- Athyroglossa tectora*  
nCresson, Trans. Amer. Ent. Soc. 52, 249-250, 1926.
- Athysanus* genus  
Ball, Trans. Amer. Ent. Soc. 55, 1-8, '25.
- Atissa atlantica*  
nCresson, Trans. Amer. Ent. Soc. 52, 253, 1926.
- Atissa suturalis*  
nCresson, Trans. Amer. Ent. Soc. 55, 177, 1929.
- Atissiella durrenbergensis, kairensis*  
nCresson, Trans. Amer. Ent. Soc. 55, 179, 1929.
- Atissiella mabelae*  
nCresson, Trans. Amer. Ent. Soc. 52, 253-254, 1926.
- Atomosia cerverai, maestrae*  
nBromley, Ent. Soc. Amer. Ann. 22, 282, 1929.
- Atomosia metallica, pubescens*  
nBromley, Ent. Soc. Amer. Ann. 22, 281-283, 1929.
- Atomus* spp.  
Miller, Ohio B. 386, 110, 1925.
- Atracides indistinctus*  
niMarshall, Ind. Acad. Sci. Proc. 38, 317, 1929.
- Atractia arcuata*  
nCurran, Amer. Mus. Nov. 272, 5-6, 1927.
- Atractotomus acaciae*  
nKnight, Brklyn. Ent. Soc. B. 20, 34, '25.
- Atropos divinatoria*, see *Troctes divinatoria* (Booklouse)\*
- Atropos pulsatoria*  
iGibson & Twinn, Can. Dept. Agr. B. 112, 47, 1929.  
McDaniel, Mich. C. B. 101, 11, 1928.
- Atropos* sp.  
iDavis, Ind. C. 150, 9-10, 1928.  
Pettit, Mich. St. Bd. Agr. R. 66, 355-356, 1928.
- Atrypoderma* spp.  
Townsend, J. N. Y. Ent. Soc. 36, 92-93, 1928.
- Atrytone dion, dukesi*  
Bell, J. N. Y. Ent. Soc. 34, 269, 370, 1926.
- Atrytone vestris*  
Holland, Ent. News 40, 326-328, 1929.
- Atrytone xanthopolys*  
nDyar, Ins. Insc. Mens. 14, 143, 1926.
- Atrytonopsis edwardsi*  
Gunder, Ent. News 36, 195, 1925.
- Atrytonopsis vierecki*  
Bell, J. N. Y. Ent. Soc. 34, 317, 1926.
- Atta cephalotes*  
liLutz, Amer. Mus. Nov. 388, 1929, 21 p.  
iMole, B.N.Y. Zool. Soc. 31, 54-60, '28.
- Atta sexdens*  
iHingston, Instinct & intelligence, 1929, 19-23.  
Townsend, J. Ec. Ent. 18, 840-842, '25.
- Atta texana* (Parasol ant)  
Herrick, Rural N. Y. 87, 989, 1928.  
iReppert, Farm & Ranch 45; 6, 36, '26.

- Atta texana* *Cont'd*  
 Texas Ext. Serv. Farm News 11: 12,  
 March 15, 1926.
- Atta* (Moellerius) *versicolor*  
 Essig, Insects of Western No. Amer.  
 1926, 862.
- Attacus luna*, *see* *Tropaea luna* (Luna  
 Moth)
- Attagenus pelli*  
 biMutchler & Weiss, N. J. Dept. Agr.  
 C. 108, 10, 1927.
- Attagenus piceus* (Black carpet beetle)\*  
 iBack & Cotton, U. S. F. B. 1260; rev.  
 Dec. 1925, 38.  
 iGibson & Twinn, Can. Dept. Agr. B.  
 112, 36, 40-43, 1929.  
 iGuyton, Pa. Dept. Agr. Gen. B. 432,  
 9-11, 1927.  
 Herrick, Rur. N. Y. 88, 1496, 1929.  
 McDaniel, Mich. C. B. 104, 708, 1927.  
 biMutchler & Weiss, N. J. Dept. Agr.  
 C. 108, 10-11, 1927.
- Attagenus* sp.—Key  
 bMutchler & Weiss, N. J. Dept. Agr.  
 C. 108, 22, 1927.
- Attelabus constrictipennis, disparipes*  
 nChittenden, Proc. Ent. Soc. Wash. 28,  
 163-165, 1926.
- Attelabus rhois*  
 Peirson, Me. For. Serv. B. 5, 24, 1927.
- Attidae*  
 Locke, Nat. Hist. 29, 296-306, 1929.
- Atypus bicolor*  
 Barber, Smithsonian Local Notes,  
 July 26, 1929, 2.
- Aucacris eumera*  
 niHebard, Ent. News 40: 253-255, 1929.
- Aulacaspis pentagona* (White peach  
 scale)\*  
 Britton and Zappe, Conn. B. 292, 159-  
 160, 1927.  
 Essig, Insect. Western No. Amer. 1926,  
 309-310.  
 iSnapp, U. S. F. B. 1557, 34-35, 1928.
- Aulacaspis rosae* (Rose scale)\*  
 iBritton & Zappe, Conn. B. 292, 159, '27.  
 Downes, Ont. Ent. Soc. R. 56, 19-22, '26.  
 iGillette & Langford, Colo. Ent. C. 46,  
 10, 1925.
- iGuyton and McCubbin, Pa. Agr. B.  
 Gen. B. 441, 1927.
- Trimble, Pa. Dept. Agr. B. 8: 2, 10,  
 1925; Gen. B. 480, 10, 1929.
- Aulacizes* spp.  
 niOsborn, Annals Carnegie Mus. 16,  
 167-169, 1926.
- Aulonium longum*  
 Champlain & Knull, Can. Ent. 57, 114,  
 1925.
- Aulonogyrus conspicuus*  
 nOchs, P. U. S. N. M. 75; 3, 1-2, 1929.
- Autotropia tucumana*  
 Earle, Facts about sugar 22, 969, 1927.
- Auradisa brendana*  
 niSchaus, Annals Carnegie Mus. 16: 1,  
 12, 1925.
- Auradisa corumbina*  
 niSchaus, Annals Carnegie Mus. 16; 1,  
 11, 1925.
- Auradisa guianica*  
 niSchaus, Annals Carnegie Mus. 16; 1,  
 12, 1925.
- \**Australian cockroach*, *see* *Periplaneta*  
*australasiae*
- Australian ladybeetle*, *see* *Novius cardi-*  
*nalis*
- \**Australian-pine borer*, *see* *Chrysobothris*  
*tranquebarica*
- Australolaelaps*, n. gen., *aeneiceps*  
 Girault, Ins. Insc. Mens. 13, 96, 1925.
- Australrhopoides* n. gen., *melleicorpus*  
 Girault, Ins. Insc. Mens. 14, 58-59, '26.
- Australtorymus*, n. gen., *dentatinotus*  
 Girault, Ins. Insc. Mens. 13, 97-98, '25.
- Australurios* n. gen., *longispina*  
 Girault, Ins. Insc. Mens. 14, 134-135, '26.
- Australzaomma*, n. gen., *brunnea*  
 Girault, Ins. Insc. Mens. 13, 96-97, '25.
- Austrapophua* n. gen., *summervillei*  
 Girault, Ins. Insc. Mens. 14, 135-136, '26.
- Austrapophua xanthopimplodes*  
 nGirault, Ins. Insc. Mens. 14, 135-136, '26.
- Austrolimnophila bradleyi*  
 nAlexander, J. N. Y. Ent. Soc. 37, 93-95,  
 1929.
- Austrolimnophila merklei, michaelsoni*  
 nAlexander, J. N. Y. Ent. Soc. 36, 50-51,  
 361-362, 1928.

- Australian tomato weevil**, *see* *Listroderes obliquus*
- Australotingis williamsi**  
nDrake, Iowa, St. Col. J. Sci. 3, 51-52, 1928.
- Autarchontes lopezi**  
nFisher, P.U.S.N.M. 66; 31, 10-11, 1925.
- Autographa brassicae (Cabbage looper)\***  
iCaesar, Ont. Dept. Agr. B. 325, 32-33, 1927.  
Compton, Canning Trade, 48; 50, 12-13, 1925.  
Compton, Ill. C. 297, 9, 1925.  
Compton, Ill. Hort. Soc. Tr. 60, 410-412, 1926.  
Huckett, N. Y. Gen. C. 80, 10-11, 1925.  
Jones & Ernst, Cal. Ext. C. 11, 33, '27.  
Knowlton, Fla. Ent. 12, 4, 62-63, 1928.  
Pettit, Mich. Sp. B. 183, 18, 1929.  
iWatson, Fla. Dept. Agr. Quar. B. 39: 3; 70, 1929.
- Autographa falcifera (Celery looper)\***  
Compton, Canning Trade, 48; 52, 14, 1925.  
Compton, Ill. C. 297, 44, 1925.
- Automeris io (Io moth)\***  
Beyer, Nation's Health 8, 410, 1926.  
Bottimer, J. Agr. Res. 33, 798, 1926.  
iBritton & Zappe, Conn. B. 292, 155, '27.  
Peirson, Me. For. Serv. B. 5, 50, 1927.  
Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 34, 1926.
- Automobile vs. insects**  
Byers, Ent. News 38, 319-320, 1927.  
Byers, Ent. News 39, 236-239, 1928.  
Larson, Ent. News 38, 47, 1927.  
bLarson, Ent. News 38, 65-70, 1927.
- Autoserica castanea**, *see* *Aserica castanea*
- Avocado blossom thrips**, *see* *Frankliniella cephalica*
- Avocado insects**  
Coit, Cal. Avocado Assoc. Yearbk. f. 1928, 18-19.  
Toy, Fla. Dept. Agr. n.s. B. 24, 29-32, 1929.
- Axanthosoma ruskini**  
nGirault, Ins. Insc. Mens. 14, 63, 1926.
- Axinopalpus utahensis**  
niTanner, Ann. Ent. Soc. Amer. 21, 270, 1928.
- Aylax hypochoerides**  
Weid, P.U.S.N.M. 68; 10, 120, 1926.
- Aysha similaris**  
niBanks, B. Mus. Comp. Zool. 69, 62-63, 1929.
- Azalea leaf miner**, *see* *Gracilaria azaleella*
- Azalea scale**, *see* *Eriococcus azaleae*
- Azotus americanus**  
niDozier, Proc. Ent. Soc. Wash. 30, 36, '28.
- Azotus silvestrii**  
niCompere, Cal. Univ. Pub. Ent. 4: 1, 9-11, 1926.
- Aztegencyrtus**, n. gen., *flavus*  
Timberlake, P.U.S.N.M. 69; 3, 16-19, '26.
- Babia quadriguttata**  
Fletcher, Can. Ent. 61, 259, 1929.
- Baccha bequaerti**  
nCurran, Amer. Mus. Nov. 340, 10, 1929.
- Baccha bromleyi**  
nCurran, Ann. Ent. Soc. Amer. 22: 490-491, 1929.
- Baccha carlota**  
nCurran, Ann. Ent. Soc. Amer. 22: 491-492, 1929.
- Baccha clavata**  
iCole, Fla. Hort. Assoc. Proc. 38, 155, 1925.  
ibMiller, Fla. B. 203, 459, 1929.  
Thompson, Fla. Ent. 11, 51, 1928.  
iWatson, Fla. B. 183, 368, 1926.
- Baccha conjunctus, costalis**  
Curran, Can. Ent. 58, 113, 1926.
- Baccha felix** 30-31, *filiola* 30, *hirta* 11-12.  
nShannon, P. U. S. N. M. 70; 9, 1927.
- Baccha inversa, liberia**  
nCurran, Amer. Mus. Nov. 340, 8-11, '29.
- Baccha lugens**  
iCole, Fla. Hort. Assoc. Proc. 38, 155, 1925.  
ibMiller, Fla. B. 203, 459-460, 1929.  
Thompson, Fla. Ent. 11, 51-52, 1928.
- Baccha macgregori**  
nCurran, Ann. Ent. Soc. Amer. 22: 492-493, 1929.

- Baccha micropelecina*  
nShannon, P.U.S.N.M. 70; 9, 10-11, '27.
- Baccha nitidithorax, ornatipes*  
nCurran, Amer. Mus. Nov. 340, 3-4, 9-10, 1929.
- Baccha peruviana, punctata*  
nShannon, P.U.S.N.M. 70; 9, 10, 11, '27.
- Bacillus lasiocampa, lutzae*  
nBrown, Amer. Mus. Nov. 251, 7-9, '27.
- Bacteria in insects*  
Brown, Amer. Mus. Nov. 251, 1927, 11 p.
- Bacterial diseases, see Insects—Bacterial diseases*
- Bactra sinistra*  
niHeinrich, U. S. N. M. B. 132, 87, 1926.
- Bactra spp.—Key*  
Heinrich, U.S.N.M.B. 132, 82-83, 1926.
- Bactra truculenta*  
Swezey, J. Ec. Ent. 19, 719, 1926.
- Bactrocera cucurbitae, see Chaetodacus cucurbitae (Melon fruit fly)*
- Badebecia, n. gen.*  
iHeinrich, U.S.N.M.B. 132, 124-125, '26.
- Badister obtusus*  
Fletcher, Can. Ent. 61, 258, 1929.
- Baeoanusia africana*  
Smith & Compere, Cal. Univ. Pub. Ent. 4, 271, 1928.
- Baetis spp.—Key*  
Needham & Murphy, Lloyd Lib. B. 24, 51-52, 1924.
- Baeus rotundiventris*  
Auten, Ann. Ent. Soc. Amer. 18, 243, 1925.
- Bagisara rectifascia*  
Bottimer, J. Agr. Res. 33, 799-800, 1926.
- Bagnalliella arizonae, desertae*  
nHood, Proc. Biol. Soc. Wash. 40, 201, 1927.
- Bagnalliella glaucae*  
niHood, J. N. Y. Ent. Soc. 35, 139-141, 1927.
- Bagnalliella huachucae, mojave*  
nHood, Proc. Biol. Soc. Wash. 40, 200-201, 1927.
- Bagous carinatus*  
nBlatchley, J.N.Y. Ent. Soc. 33, 95, '25.
- \*Bagworm, see Thyridopteryx ephemeraeformis*
- Baker's mealybug, see Pseudococcus maritimus*
- Bakery insects—Control*  
Gardner, Bakers Rev. 59; 3, 75, 1929.
- Balaninus caryae (Pecan weevil)\**  
Baerg, Ark. Pecan Grow. Assoc. Proc. 3, 20, 1929.  
Chaffin, Amer. Fr. Grow. Mag. 47; 2, 8, 1927.  
Good, Ala. R. 35, 14-15, 1924 (1928?)  
R. 36, 14, 1925.  
iLeiby, N. C. Dept. Agr. B. Feb. 1925, 38-42.  
Woodard, Tex. Dept. Agr. B. 81, 176, 1925.  
iWoodward, et al, Tex. Dept. Agr. B. 95, 145-146, 1929.
- Balaninus obtusus*  
ibHutchings, Ont. Ent. Soc. R. 57, 9-12, 1927.
- Balaninus proboscideus, see Curculio proboscideus*
- Balaninus rectus (Chestnut weevil)\**  
ibPark, Ent. News 39, 219-220, 1928.  
Peirson, Me. For. Serv. B. 5, 53, 1927.
- Balaninus spp.*  
Dunlap, USDA, FHB., SRA, 91, 60-61, 1927.  
Marlatt, USDA, FHB, SRA, 93, 142, '27.
- Balclutha hyalina*  
nOsborn, Ann. Ent. Soc. Amer. 19, 352, 1926.
- \*Bald-face hornet, see Vespa maculata*
- Balioglutum illingworthi*  
nAldrich, P.U.S.N.M. 66: 18, 10-11, '25.
- Baliosis californicus*  
Brisley, Trans. Amer. Ent. Soc. 51, 180, 1925.  
VanDyke, Pan-Pac. Ent. 1, 174, 1925.
- Baliosis ruber*  
iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 200-201.
- Balled nursery stock—Fumigation*  
iLeach & Fleming, J. Ec. Ent. 18, 362, 1925.
- Balloons and spread of insects*  
iFelt, Sci. Amer. 132, 266, 1925.  
iFelt, Tree Talk 7: 2, 8-10, 1926.
- Balsam bark weevil, see Pissodes dubius*

- Balsam fir bark beetle, *see* *Tomicus balsameus*
- Balsam gall midge, *see* *Cecidomyia balsamicola*
- Balsam sawyer, *see* *Monochamus marmorator*
- Bamboo aphid, *see* *Myzocallis arundinicolens*
- Bamboo scale, *see* *Asterolecanium bambusae*
- Banana insects  
     Gowdey, Jamaica Agr. Soc. J. 32, 423-424, 1928.  
     —Jamaica, Sci. & Agr. Dept. Ann. R. f. 1926, 16, 1927.
- \*Banana root borer, *see* *Cosmopolites sordidus*
- Banded ash borer, *see* *Neoclytus capreae*
- \*Banded cucumber beetle, *see* *Diabrotica balteata*
- \*Banded flea beetle, *see* *Systema taeniata*
- Banded purple, *see* *Basilarchia arthemis*
- Bankia setacea  
     Miller, Ecology 7, 249, 1926.
- Bankia sp.  
     iHunt, Am. For. 32, 655, 1926.
- Bar-winged onion fly, *see* *Chaetopsis aenea*
- Barathra configurata (Bertha army worm)\*  
     iBlKing, J. Ec. Ent. 21, 279-293, 1928.  
     King, Sci. Agr. 9, 383, 1929.  
     iBlKing, Can. Dept. Agr. Pam. 103, 10 p., 1929.  
     McMillan, Ont. Ent. Soc. R. 59, 26, '29.  
     Mitchener & Criddle, Ont. Ent. Soc. R. 59, 23, 1929.  
     Motherwell, Canad. Min. Agr. R. f. 1929, 137.  
     Parker & Mabey, Mont. B. 216, 10, '28.  
     Seamans, Ont. Ent. Soc. R. 59, 29-30, '29.
- Barini—Key to tribes  
     iBoving, Proc. Ent. Soc. Wash. 29, 155-159, 1927.
- Baris palmensis  
     nBlatchley, J.N.Y. Ent. Soc. 36, 252, '28.
- Baris seminola  
     nBlatchley, J.N.Y. Ent. Soc. 36, 251-252, 1928.
- Bark Beetles  
     Chamberlin, Amer. For. 33, 399, 141-144, 1927.  
     Craighead, J. Ec. Ent. 18, 577-586, 1925.  
     bCraighead, J. For. 26, 886-887, 1928.  
     Craighead, U. S. Forest Worker 4: 2, 22, 1928.  
     iForbes, Amer. Forest 32, 12-14, 1926.  
     Howard, USDA Ent. R. f. 1925, 29-31.  
     Korstian, Science, 61; 1582, 448, 1925.  
     Marlatt, U.S.D.A. Ent. R. f. 1928, 30; Ent. R. f. 1929, 28-30.  
     Preston, J. For. 23, 49-61, 1925.  
     Snyder, Nat. Mag. 5, 311, 1925.  
     Swaine, Can. Ent. 61, 145-146, 1929.
- Bark beetles and fire blight  
     iMiller & Patterson, J. Agr. Res. 34, 597-613, 1927.
- Bark beetle epidemics and wind-falls  
     iMiller, Internat. Cong. Ent. 4, Tr. 2, 992-1002, 1929.
- Bark beetles—Losses  
     Miller, Timberman 26: 8, 186, 188, '25.
- \*Barnacle scale, *see* *Ceroplastes cirripediformis*
- Barythrips heteroceris  
     nHood, Psyche 32, 66-67, 1925.
- Basilarchia arthemis  
     Clark, Psyche 32, 295, 1925.  
     Peirson, Me. For. Serv. B. 5, 40, 1927.
- Basilarchia weidemeyrii  
     Cockerell, So. Cal. Acad. Sci. B. 26, 5, 1927.
- Basilona imperialis (Imperial moth)\*  
     iClark, Sci. Mo. 23, 395, 1926.  
     Fernald, Applied Ent. ed. 2, 284, 1926.
- Bassus abdominalis  
     nMuesebeck, P. U. S. N. M. 69: 16, 35-36, 1927.
- Bassus (Microdus) aciculatus  
     nBrues, Proc. Amer. Acad. Arts & Sci. 61, 285-287, 1926.
- Bassus laetatorius  
     Girault, Ins. Insc. Mens. 13, 35, 1925.
- Bassus spp.  
     nMuesebeck, P. U. S. N. M. 69: 16, 31-65, 1927.

- Bassus stigmaterus**  
 Earle, Facts about Sugar, 22, 969, '27.  
 Plank, Internat. Soc. Sugar Cane Tech.  
 Proc. 2d Confer. 68, 1927.  
 bPlank, Ann. Ent. Soc. Amer. 22, 633-634, 1929.
- Basswood leaf roller, see** *Pantographa limata*
- Bat bedbug, see** *Cimex pilosellus*
- Bat fly, see** *Nycterophila coxata*
- Bathyplectes curculionis**  
 bChamberlin, J. Ec. Ent. 19, 302-311, '26.  
 Chamberlin, J. Ec. Ent. 19, 642, 1926.  
 Iddings, Ida. B. 135, 28, 1925.
- Bathyplectes spp.—Key**  
 Viereck, Can. Ent. 57, 224-226, 1925.
- Batodes angustiorana**  
 Motherwell, Can. Min. Agr. R. f. 1929, 124, 1929.
- Batrachedra rileyi, see** *Pyroderces rileyi*
- Bats and insects**  
 iGable, Better Fruit 23: 4, 5-7, 1928.  
 Miller & Powell, Better Fruit 22: 3, 10, 1927.  
 iStorer, Jour. Mammalogy 7 (2): 85-90, 1926.
- Batyle rufiventris**  
 nKnull, Ent. News 39, 126, 1928.
- Batyle suturalis**  
 Champlain, Kirk & Knull, Ent. News 36, 140, 1925.
- Bay whitefly, see** *Paraleuroides perseae*
- Bdella spp.**  
 Miller, Ohio B. 386, 94-95, 1925.
- Bdellozonium—n. gen., cerviculatum**  
 nCook & Loomis, P. U. S. N. M. 72; 18, 15-17, 1928.
- Beach grasshopper, see** *Trimerotropis huroniana*
- Bean aphid, see** *Aphis rumicis*
- Bean insects**  
 Howard, The Bean-Bag, 7: 11, 20, '25.  
 Howard, Canner 60: 11, II, 100-101, 1925.  
 Howard, Canning Trade, 48; 27, 99-100, 1925.  
 iPettit, Mich. Bd. Agr. R. 65, 272-274, 1927.  
 Tissot, Fla. Grow. 37; 11, 33, 1929.
- \*Bean leaf beetle, see** *Cerotoma triurcata*
- \*Bean leaf roller, see** *Goniurus proteus*
- Bean pod borer, see** *Etiella zinckerella*
- Bean thrips, see** *Heliothrips fasciatus*
- \*Bean weevil, see** *Mylabris obtectus*
- Beautiful hickory borer, see** *Goes pulchra*
- \*Bedbug, see** *Cimex lectularius*
- Bee assassin, see** *Apiomerus crassipes*
- Bee culture**  
 iCarr, N. J. B. 463, 1928, 87 p.  
 Cory, Md. Ext. C. 38, 1-4, (1919)  
 iPhillips, Beekeeping (rev. ed.) 1928, 490 p.  
 Phillips & Demuth, USFB 1216, 22 p., '22.  
 Rowell, Fla. Dept. Agr. Quar. B. 35, 4, 70-72, 1925.  
 Rude, Okla. Ext. C. 238, 16 p., 1928.  
 iScullen, Oreg. Ext. B. 401, 1927, 32 p.  
 Snyder, Iowa St. Hort. Soc. Trans. 59, 285, 1925.  
 iWieder, Fla. Dept. Agr. n.s. B. 5, Oct. 1928, 23 p.
- Bee culture laboratory U. S. D. A.**  
 Sechrist, Amer. Honey Producer, 2; 5, 179-181, 1928.
- Bee culture library—Cornell**  
 Philips, J. Ec. Ent. 19, 174-178, 1926.
- Bee, leaf-cutting, see** *Megachile centricularis*
- Bee moth, see** *Galleria mellonella*
- Bee pests—Control**  
 Bliss, Iowa Ext. B. 138, 1926, 16 p.
- Bee plants—Legumes—Tex.**  
 iParks, Tex. C. 46, 1927, 11 p.
- Bee stings**  
 Gibb, Canad. Med. Assoc. J. 19, 461, 1928.  
 Jones, Am. Bee J. 65, 535, 1926.
- Beech insects**  
 Peirson, Me. For. Serv. B. 5, 38, 1927.
- \*Beech scale, see** *Cryptococcus fagi*
- Beech spanworm, see** *Hyperitis nyssaria*
- Beech tree blight, see** *Pemphigus imbricator*
- Bees**  
 Bierens de Haan, Ent. News 40, 22, 1929.  
 Cockerell, Colo. Univ. B. 28, 99-126, '28.

- Harris, Iowa Agricul. 24, 178-179, 1924.  
 Lovell, Me. Nat. 5, 7-10, 1925.  
 iLubbock, Ant. Bees & Wasps, 1929, 377 p.  
 iMcIndoo, Smith. R. f. 1928, 541-552.  
 Reese, Ohio St. Hort. Soc. Proc. 58, 88-90, 1925.  
 Symons, Md. Ext. R. 11, 60, 1925.
- Bees—Artificial insemination of queen**  
 Nolan, J. Ec. Ent. 22, 544-551, 1929.  
 iWatson, J. Ec. Ent. 22, 944-954, 1929.
- Bees—Australian region**  
 Cockerell, Amer. Mus. Novit. 343, 1929, 18 p.
- Bees—Body fluids**  
 Bishop, Briggs & Ronzoni, J. Biol. Chem. 66, 77-88, 1925.
- Bees—Brood diseases**  
 Walling, Tenn. Hort. Soc. Proc. 21, 125-127, 1926.
- Bees—Calif. Acad. of Sci.**  
 Cockerell, Pan-Pac. Ent. 3, 80-90, '26.
- Bees—Colo.**  
 Cockerell, J. N. Y. Ent. Soc. 37, 441-448, 1929  
 Cockerell, Colo. Univ. B. 28, 99-126, '28.
- Bees—Diseases**  
 Adams, Wis. Dept. Agr. B. 69, 52-58, 1924; B. 98, 84-86, 1929.  
 Chambers, Wis. St. Dept. Agr. B. 98, 84-89, 1929.  
 Dadant, J. Ec. Ent. 19, 155-158, 1926.  
 Garman, J. Ec. Ent. 18, 445, 1925.  
 Gould, N. Y. Dept. Agr. & Markets C. 381, 1929, 18 p.  
 iMillen, Ont. Dept. Agr. B. 317, 1926, 22 p.  
 iPaddock, Iowa Ext. B. 145, 1929, 23 p.  
 iWhitcomb & Wilson, Wis. Res. B. 92, 1929, 27 p.
- Bees—Diseases, Sacbrood**  
 Bliss, Iowa Ext. B. 136, 10-11, 1926.
- Bees—Effect of spraying and dusting**  
 Myers, Gleanings 53, 230, 1925.
- Bees—Habits**  
 Jones, Miller's Rev. 93; 7, 25, 1929.  
 Schwartz, Nat. History N. Y. 26, 159-163, 1926.
- Bees—Handling**  
 iRoot, Lit. Digest Sept. 19, 1925, p. 36.
- Bees—Heat**  
 iWeiss, Amer. For. 32, 91-93, 1926.
- Bees—Heterotropic**  
 bRobertson, Ecology 6, 412-436, 1925.
- Bees—Inquiline**  
 bRobertson, Psyche 33, 116-120, 1926.
- Bees—Inspection**  
 Carr, N. J. Dept. Agr. Ann. R. 12, 102-104, 1927.
- Bees—Maine**  
 Lovell, Me. Nat. 5, 111-115, 1926.
- Bees—Nesting habits, Boulder Co., Colo.**  
 bHicks, Univ. Colo. B. 26, 217-252, 1926.
- Bees—Poisoning**  
 Belts, Am. Bee. J. 69, 520, 1929.  
 bMcIndoo & Demuth, U. S. D. A. B. 1364, 1926, 32 p.
- Bees—Queen rearing**  
 ibParks & Alex, Tex. C. 35, 1925, 19 p.
- Bees—Swarming**  
 iSlocum, Wash. Ext. B. 145, 1927, 10 p.
- Bees—Syrups for autumn feeding**  
 Patterson, Scien. Agr. 8, 151-162, 1927.
- Bees—Water carriers vs. nectar carriers**  
 ibPark, J. Ec. Ent. 19, 656-664, 1926.
- Bees—Weight affected by weather**  
 bHambleton, USDAB 1339, 1925, 52 p.
- Bees—Wintering**  
 iKelty, Mich. Ext. B. 77, 1929, 4 p.
- Bees and coffee**  
 Sein, P. R. Ins. C. 79, 1923, 6 p.
- Bees and cross-pollination**  
 Sechrist, Md. St. Hort. Soc. R. 30, 212-221, 1928.
- Bees and fertilization of alfalfa**  
 Gray, Can. Ent. 57, 235, 1925.
- Bees and fruit**  
 Bradley, Mich. Hort. Soc. R. 54, 134, '25.  
 Dyce, Ont. Frt. Gr. Assoc. R. 60, 64-69, 1929.  
 Ewell, N. Y. Hort. Soc. R. 57, 47-53, 1927.
- Bees and fruit**  
 iHootman, Amer. Fr. Gr. Mag. 48; 5, 6, 1928.  
 Parker, Kans. St. Hort. Soc. Bien. R. 39, 72-76, 1928.
- Bees and grapes**  
 Orr, Cal. Cult. 70, 229, 1928.



## Bees and horticulture

Walling, Tenn. Hort. Soc. Proc. 21, 48-54, 1926.

## Bees and pollination

Burkhart, Mich. Hort. Soc. R. 58, 60-63, 1929.

Hootman, Ky. St. Hort. Soc. Tr. f. 1929, 171-181.

K. K., Pineapple News 1, 120-121, 1927.

Price, Ky. St. Hort. Soc. Tr. f. 1929, 106-116.

\*Beet armyworm, *see* *Laphygma exigua*

Beet flea beetle, *see* *Disonycha xanthomelaena*

## Beet insects

Facts About Sugar, 24, 285, 1929.

Facts About Sugar, 24, 651, 1929.

\*Beet leaf beetle, *see* *Monoxia puncticolis*

Beet leaf miner, *see* *Pegomyia vicina*

\*Beet leafhopper, *see* *Eutettix tenellus*

Beet root aphid, *see* *Pemphigus betae*

\*Beet webworm, *see* *Loxostege sticticalis*

## Beetles

Wallis, Canad. Biol. & Fish. Contr. 4, 221-225, 1926.

Beetles-Mandibles used to stitch wounds

Gudger, Amer. Med. Assoc. J. 84; 1861-1864, 1925.

*Belostoma fluminum*

Hussey, Entom. Amer. 7 n.s.; 1, 6-14, 1926.

*Belostoma grandis* (Giant water bug) and water snake

Aaron, Nature Mag. 14, 283, 1929.

Belted bean beetle, *see* *Diabrotica balteata*

*Belvosia canadensis*

nCurran, Brooklyn Ent. Soc. B. 22, 152-153, 1927.

*Belvosia canalis* 44, *ciliata* 22-23, *elusa* 25-26, *frontalis*, 24-25, genus revision. nAldrich, P.U.S.N.M. 73; 8, 1928, 45 p.

*Belvosia insularis*

nCurran, Amer. Mus. Nov. 260, 4-5, '27.

*Belvosia lata* 39-40, *manni* 7-8, *mexicana* 11-12, *nigrifrons* 38-39, *omissa* 21-22. nAldrich, P.U.S.N.M. 73; 8, '28.

*Belvosia orion*

nBrimley, Elisha Mitchell Sci. Soc. J. 43, 205-206, 1928.

*Belvosia recticornis* 16, *semiflava* 11, *smithi* 40-41, *spinicoxa* 41-42, *townsendi* 33-35, *vittata* 24, *wiedemanni* 19, *williamsi* 43-44; nAldrich, P.U.S.N.M. 73; 8, 1928.

*Belvosia splendens*

Curran, Brklyn. Ent. Soc. B. 22, 153-154, 1927.

*Belyta longicollis*

nFouts, Proc. Ent. Soc. Wash. 28, 174, '26.

*Belyta robustior*

nFouts, Proc. Ent. Soc. Wash. 27, 152, '25.

*Belyta rugifrons*

nFouts, Brooklyn Ent. Soc. B. 21, 149-150, 1926.

*Bembecia marginata* (Raspberry root borer)\*

Essig, Cal. B. 411, 15-16, 1926.

Garlick, Canada Agr. B. 114, 23, 1929.

Hamilton, N.J.R. 47, 213-215, 1927.

Headlee, & Ilg, J. Ec. Ent. 19, 471-477, '26.

Lipman, N. J. R. 47, 19, 1927.

Long, Better Fruit, 23; 11, 26, 1929.

Ryan, Los Angeles Co. Hort. R. 1924-25, 12, 1925.

Scholl & Stephens, Tex. Dept. Agr. B. 84, 29-30, 1925.

iThompson, Oreg. St. Bd. Hort. Bien. R. 19, 127-128, 1927.

Better Fruit 22; 12, 11, 1928.

Fruits and Gardens 27; 10; 3, 1929.

Oreg. Farm. 49, 51, 1929.

*Bembicini* (Digger wasps)

Fox, Cal. Acad. Sci. Proc. ser. 4, 15; 5, 219-221, 1926.

Parker, P.U.S.N.M. 75: 5, '29, 203 p.

*Bembidion coerulescens*

nVan Dyke, Pan-Pacific Ent. 2, 65, '25.

*Bembidion concurrens*

nFall, Pan-Pacific Ent. 2, 134-135, 1926.

*Bembidion (Actedium) lachnophoroides*

bnDarlington, Psyche. 33, 34-35, 1926.

*Bembidion (Peryphus) mackinacensis*

nHatch, Can. Ent. 61, 135, 1929.

*Bembidion mckinleyi*

nFall, Pan-Pacific Ent. 2, 132-134, 1926.

- Bembidion suspectum*  
Blaisdell, Ent. News 36, 82, 1925.
- Bembidion (Parabracteon) tuberculatum*  
nNotman, Trans. Amer. Ent. Soc. 55, 157-158, 1929.
- Bembidion utahensis*  
nVan Dyke, Pan-Pacific Ent. 2, 66, '25.
- Bembidion yukonum*  
nFall, Pan-Pacific Ent. 2, 131-132, 1926.
- Bembidium*, *see* *Bembidion*
- Bembidula quadrifasciata*  
Davis, J. N. Y. Ent. Soc. 34, 89, 1926.
- Bembix agrestis* 135-136, *alacris* 99, *albata* 127, *aldabra* 99-101, *bahiae* 138, *bellatrix* 151-152, *comantis* 131.  
nParker, P.U.S.N.M. 75; 5, 1929.
- Bembix comata*  
Parker, Proc. Ent. Soc. Wash. 27, 189-195, 1925.
- Bembix festiva* 118-119, *flavolatera* 134-135, *frioensis* 116-118, *fucosa* 72-73, *fumida* 105-106, *generosa* 153, *gracilens* 143-144, *gradilis* 122-123, *hexaspila* 145-146, *incognita* 154-155, *laeta* 151, *levis* 78-79, *liberiensis* 126, *liventis* 144-145, *longipennis* 149-150, *loupata* 73-75, *luzonensis* 141-142, *merceti* 110-111, *miserabilis* 108-109. niParker, P.U.S.N.M. 75; 5, 1929.
- Bembix magdalenae*  
Fox, Cal. Acad. Sci. Proc. ser. 4, 15; 5, 220-221, 1926.
- Bembix nubilipennis*  
Rau, Psyche, 36, 247-248, 1929.
- Bembix nigrocornuta* 106-108, *nubilosa* 140-141, *nupera* 142-143, *opinabilis* 79-81, *piraporae* 153-154, *quinque-spinosa* 86-87, *recurva* 76-78, *refuscata* 94-95, *regia* 68-70, *regnata* 111-112, *residua* 75-76, *seculata* 101-103, *spatulata* 112-113, *spiritalis* 147-148, *stevensoni* 92-94, *tenebrosa* 90-91, *tenuifasciata* 82-83, *torosa* 84-86.  
niParker, P.U.S.N.M. 75; 5, 1929.
- Bemisia inconspicua* (Sweet potato whitefly)\*  
Watson, Fla. B. 183, 346-347, 1926.  
Watson, Fla. Gr. 35: 16, 23, 1927.
- Watson, Fla. Dept. Agr. Quar. B. 39: 3; 132, 1929.
- Benacus griseus* (Giant water bug)  
Ewing, Am. J. Pharm. 100, 540, 1928.  
Ewing, Amer. Jour. Trop. Med. 8, 59, 1928.  
Ewing, U. S. Naval Med. B. 26, 701, 1928.  
Hungerford, Psyche 32, 88, 1925.  
Stabler, Ent. News 40, 232, 1929.
- Beneficial insects**  
iArmitage, Cal. Cult. 73; 1, 3, 1929.  
iBade, House B. 61, 342, Mar. 1927.  
Frost, Ent. News 38, 153-156, 1927.  
Greiner, Market Gr. J. 36, 139, 1925.  
iHeppner, Amer. Fruit Gr. Mag. 45; 5, 9, 1925.  
Howard, Ann. Ent. Soc. Amer. 20, 445-450, 1927.  
Lutz, Natural Hist., N. Y. 26, 147-151, 1926.  
Merrill, Cal. R. f. 1927-28, 56, 1929.  
iMetcalf & Flint, Dest. & Usef. Ins 34-68, 1928.  
Smith, Cal. Citrograph 10, 312, 1925.  
Snapp, U. S. F. B. 1557, 52, 1928.  
Swezey, J. Ec. Ent. 19, 714-720, 1926.  
Webber, Cal. Agr. Mo. B. 18, 102, 1929.  
Woodhams, Cal. Cult. 73: 5; 93, 99, '29.  
Woodward, Tex. Dept. Agr. B. 95, 151-154, 1929.
- Benta malanogrammos*  
Peirson, Me. For. Serv. B. 5, 100, 1927.
- Bequaertiana*—n. gen., *argyriiventris*  
nCurran, Amer. Mus. Nov. 340, 14-15, 1929.
- Berberodes pohli, serraria*  
nSchaus, Proc. Ent. Soc. Wash. 29, 77, '27.
- Berecynthus bakeri*  
King & Atkinson, Ann. Ent. Soc. Amer. 21, 174, 1928.  
Snow, J. Ec. Ent. 18, 606-607, 1925.
- Beris annulifera*  
Johnson, Psyche, 33, 108-109, 1926.
- Beris quadridentata*  
Johannsen, Brooklyn Ent. Soc. B. 20, 214, 1925.
- Berry pests**, *see* **Small fruit insects**

- \**Bertha* armyworm, *see* *Barathra con-figurata*
- Besida vinvalva*  
nSchaus, P.U.S.N.M. 73; 19, 83-84, '28.
- Beskia* genus  
Townsend, Ent. News 39, 150-151, 1928.
- Besseria incompleta*  
nCurran, Can. Ent. 58, 84-85, 1926.
- Bethylinae*—Notes on  
Fouts, Proc. Ent. Soc. Wash. 30, 121-132, 1928.
- Bethylus amoenus*  
nFouts, Proc. Ent. Soc. Wash. 30, 127, 1928.
- Betulaphis* n. gen., *occidentalis*  
nGlendenning, Can. Ent. 58, 96-97, '26.
- Bibio albipennis*  
Cooley, Mont. B. 170, 26, 1925.
- Bibio bryanti*  
nJohnson, Psyche, 36, 133, 1929.
- Bibio carri*  
nCurran, Can. Ent. 59, 80-81, 1927.
- Bibio labradorensis*  
nJohnson, Psyche, 36, 133, 1929.
- Bibrax*—n. gen., *bradleyi*  
nFletcher, Ent. News 38, 149-150, 1927.
- Bicyrtes* spp.  
nParker, P.U.S.N.M. 75; 5, 171-181, '29.
- Bidessus pullus*  
Blatchley, Can. Ent. 57, 162, 1925.
- Billaea nipigonensis*  
nCurran, Can. Ent. 58, 89, 1926.
- Bill-bug huntress*, *see* *Cerceris bicornuta*
- Biological control**  
Brock, Cal. Cult. 64, 585, 1925.  
iSmith, Cal. Cit. 11, 428-430, 1926.  
Smith, J. Ec. Ent. 19, 294-302, 1926.  
Swezey, Internat. Cong. Ent. 4, Tr. 2, 366-367, 1929.  
Woodhams, Cal. Cult. 73, 120, 1929.
- Biological control, pest plants**  
Cockerell, Science n. s. 69, 328-9, 1929.  
Tillyard, Internat. Cong. Ent. 4, Tr. 2, 4-9, 1929.  
Wardle, Discovery 8, 157-158, 1927.
- "Biological species" and taxonomy**  
McAtee, Proc. Ent. Soc. Wash. 30, 38-39, 1928.
- Bioluminescence**  
iNewton, J. Gen. Physiol. 10: 6, 875-881, 1927.  
Newton, J. Biol. Chem. 78: 2, 369-375, 1928.
- Bipersona** gen.  
Hottes, Proc. Biol. Soc. Wash. 39, 115, 1926.  
Soliman, Cal. Univ. Pub. Ent. 4; 6, 96, 1927.
- Bipersona torticauda*  
iSoliman, Cal. Univ. Pub. Ent. 4; 6, 97-98, 1927.
- Biprorulus bibax**—Parasites  
Girault, Ins. Insc. Mens. 14, 137-138, '26.
- Birch horntail*, *see* *Xyphidria provancheri*
- Birch insects**  
Peirson, Me. For. Serv. B. 5, 44-45, '27.
- Birch leaf miner*, *see* *Fenusa pumila*
- Birch leaf-mining sawfly*, *see* *Phyllotoma nemorata*
- Birch leaf skeletonizer*, *see* *Bucculatrix canadensisella*
- Bird grasshopper*, *see* *Schistocerca alutacea*, *S. serialis*
- Bird tick*, *see* *Dermanyssus avium*
- Birds and insects**  
iBarber, Psyche, 32, 30-46, 1925.  
Behrends, Amer. Fr. Gr. Mag. 48: 17, 6, 1928.  
Brown, Can. Field Nat. 43, 108, 1929.  
Chapin, U. S. D. A. B. 1355, 1925, 42 p.  
Collinge, Ibis Ser. 3, 12; 2, 196-201, '27.  
Danforth, Porto Rico Dept. Agr. J. 10: 1; 22-23, 1926.  
iDixon, Nat. Mag. 12, 296, 1928.  
iDuPuy, Our bird friends and foes. 1925, 319 p.  
Forbush, Birds of Mass. 1, Mass. Dept. Agr. 1925, 481 p.  
Fox, U.S. Bur. Ed. B. 1925; 15, 9-19, '25.  
bHenderson, Practical value of birds. 1927, 342 p.  
Johnson, Auk, 45: 3, 330-333, 1928.  
iKalmbach, U. S. D. A. Tech. B. 24, 7-11, 1927.  
Kalmbach, U.S.F.B. 1571; Dec. '28, 26 p.  
McAtee, Smithsonian R. 1925, 415-438.

- iMcAtee, Roosevelt Wild Life B. 4: 1, 5-152, 1926.  
 McAtee, Sci. Mo. 26; 7, 77-80, 1928.  
 Miller, Ent. News 38, 58, 1927.  
 Munro, Canad. Field Nat. 39: 7, 166-167, 1925.  
 Neff, Oreg. Hort. Soc. Ann. Meet. 40, 116-119, 1925.  
 bNeff, Econ. Status Amer. Woodpeckers, 1928, 68 p.  
 Odell, N. Y. Gen. B. 549, 1928, 19 p.  
 Palmer, N. Y. Cornell Rur. School Leaf, 22: 1, 70, 1928.  
 Pena, La Hacienda, 19, 366-367, 1924.  
 Powell, Fla. Grow. 35: 10, 15, 1927.  
 Shoffner, Farm Journal 51: 3, 42, 1927.  
 Smith, Wis. Hort. 14: 1, 7, 1928.  
 Stevens, No. Dak. B. 195, 1926, 30 pp.  
 Strickland, Sci. Mo. 26, 48-56, 1928.  
 Thomas, Flower Grow. 13, 20-21, 1926.  
 Todd, Proc. Biol. Soc. Wash. 40, 149-177, 1927.  
 Webster, Nor. West Farmer 36, 38, May 5, 1927.  
 Weed & Dearborn, Birds in their relations to man, 1924, p. 68-86.  
 Whitehead, Jr. Agr. & Hort. 33, 82-83, 1929.  
 Amer. Fr. Gr. Mag. 45; 4, 22, 1925.  
 Fla. Dept. Game & Fresh Water Fish, Leaf. 4, 1927, 12 p.
- Biting cattle louse, *see* *Trichodectes scalaris*  
 Biting goat louse, *see* *Trichodectes equi* and *T. latus*  
 Black ant, *see* *Monomorium minutum*  
 Black apple leafhopper, *see* *Idiocerus provancheri*  
 Black army cutworm, *see* *Agrotis fennica*  
 Black aster beetle, *see* Black blister beetle\*  
 \*Black blister beetle, *see* *Epicauta pennsylvanica*  
 Black blowfly, *see* *Phormia regina*  
 Black carpenter ant, *see* *Camponotus herculeaneus pennsylvanicus*  
 \*Black carpet beetle, *see* *Attagenus piceus*  
 \*Black cherry aphid, *see* *Myzus cerasi*  
 Black corn weevil, *see* *Calandra granaria*  
 Black Corsair, *see* *Melanolestes picipes*  
 Black crickets, *see* *Gryllus* spp.  
 \*Black cutworm, *see* *Agrotis ypsilon*  
 Black elm snout beetle, *see* *Magdalis barbata*  
 Black flies, *see* *Simuliidae*  
 Black fruit tree weevil, *see* *Magdalis gracilis*  
 Black fungus beetle, *see* *Alphitobius piceus*  
 Black gooseberry borer, *see* *Xylocrius agassizi*  
 Black grape aphid, *see* *Macrosiphum illinoisensis*  
 \*Black-head fireworm, *see* *Rhopobota naevana*  
 Black headed tip moth, *see* *Peronea variana*  
 \*Black hills beetle, *see* *Dendroctonus ponderosae*  
 \*Black-horned tree cricket, *see* *Oecanthus nigricornis*  
 \*Black horse fly, *see* *Tabanus atratus*  
 Black house ant, *see* *Monomorium minimum*  
 Black lady beetle, *see* *Rhizobius ventralis*  
 \*Black-legged tortoise beetle, *see* *Jonathanota nigripes*  
 Black-lined cutworm, *see* *Agrotis fennica*  
 Black onion fly, *see* *Tritoxa flexa*  
 Black peach aphid, *see* *Anuraphis persicae-niger*  
 Black pecan aphid, *see* *Myzocallis fumipennellus*  
 \*Black scale, *see* *Saissetia oleae*  
 Black stink bug, *see* *Cosmopepla bimaculata*  
 \*Black swallowtail, *see* *Papilio polyxenes*  
 \*Black thread scale, *see* *Ischnaspis longirostris*  
 \*Black turpentine beetle, *see* *Dendroctonus terebrans*  
 Black vine weevil, *see* *Brachyrhinus sulcatus*  
 Black walnut curculio, *see* *Conotrachelus retentus*  
 "Black wasp", *see* *Glypta rufiscutellaris*  
 Black weevil borer of banana, *see* *Cosmopolites sordidus*

- Black widow, *see* *Latrodectes mactans*  
 Black witch, *see* *Erebus odora*  
 Blackberry crown borer, *see* *Bembecia marginata*  
 Blackberry gall maker, *see* *Diastrophus turgidus*  
 Blackberry insects  
 libDaniel, N. Y. Gen. Tech. B. 133, 1928, 35 p.  
   Davis, Am. Fruit Grower, 46, 32, 1926.  
   Scholl & Stephens, Tex. Dept. Agr. B. 84, 29-30, 1925.  
   Swartwout, Mo. B. 232, 22-23, 1925.  
 Blackberry leaf miner, *see* *Metallus rubi*  
 Blackberry mite, *see* *Eriophyes gracilis*  
 Blackberry psyllid, *see* *Trioza punctata*  
*Blacus natalensis*  
   nBrues, Proc. Amer. Acad. Arts & Sci. 61, 277-278, 1926.  
 Bladder maple gall, *see* *Eriophyes quadripes*  
*Blaps mucronata*  
   Hungerford, Brkyn. Ent. Soc. B. 23: 180, 1928.  
*Blapstinus cinerascens*  
   nFall, Can. Ent. 61, 58-59, 1929.    •  
*Blapstinus falli*  
   inBlaisdell, Pan-Pac. Ent. 6: 21-23, '29.  
*Blastophaga grossorum*  
   Rosenberg Bros., Am. Fruit Gr. Mag. 47: 1, 38, 1927.  
*Blastophaga psenes*  
   iEssig, Insects of Western No. Amer. 1926, 815-817.  
*Blastophaga* sp.  
   Calif. Fruit News 77; 2061, 1, 1928.  
*Blastothrix suburbis*  
   nGirault, Ins. Insc. Mens. 14, 67, 1926.  
*Blastothrix turneri*  
   nGirault, Ins. Insc. Mens. 13, 100, 1925.  
*Blasturus cupidus*  
   bTraver, Can. Ent. 57, 211-218, 1925.  
*Blatella brevialeta*  
   nCaudell, P.U.S.N.M. 71: 3, 9-10, 1928.  
*Blatella germanica* (German cockroach)\* (Croton bug)  
   iBrittain, N. S. Dept. Nat. Resource B. 12, 118, 1927.  
   Curran, Nat. Hist. 29, 618, 1929.  
   Felt, N. Y. St. Mus. B. 267, 44, 1926.  
   Guyton, Pa. Dept. Agr. Gen. B. 432, 3-4, 1927.  
   Haber, Brooklyn Ent. Soc. B. 21, 61-92, 1926.  
   Hermes, J. Ec. Ent. 10, 602-604, 1926.  
   Maheux, Quebec Soc. Protec. Pl. R. 18, 101, 1926.  
   Peet & Grady, Soap, 4; 3, 99, 1928.  
   Riley, Nation's Health 8, 533, 1926.  
*Blatella palmeri*  
   nCaudell, P.U.S.N.M. 71; 3, 10-12, '28.  
*Blatta orientalis* (Oriental cockroach)\*  
   Dowling, La. St. Bd. Health Quar. B. 18; 1, 12-14, 1927.  
   iHaweis, Nature Mag. 11, 234-5, 1928.  
   bKudo, Am. J. Hyg. 6, 139-152, 1926.  
   bSlater, Biochem. J. 21, 198-203, 1927.  
   bSwingle, Ohio J. Sci. 25, 204-218, '25.  
   Nation's Health, 7; 1, 48-49, 1925.  
*Blattidae*  
   iHebard, Proc. Phila. Acad. Nat. Sci. 78, 135-244, 1926.  
   Hebard, Trans. Amer. Entom. Soc. 55, 345-388, 1929.  
   Rehn, Trans. Amer. Ent. Soc. 54, 125-194, 1928.  
 Blazed tree borer, *see* *Serropalpus barbatus*  
*Blechroscelis modesta*  
   nBanks, Harvard Mus. Comp. Zool. B. 60, 57, 1920.  
*Blephariceridae*—N. Am. gen.  
   iWalley, Can. Ent. 59: 112, 1927.  
*Blepharida rhois* (Sumac flea beetle)  
   Brisley, Trans. Amer. Ent. Soc. 51, 177, 1925.  
*Blepharipa scutellata*  
   ibCrowell, Psyche, 36, 220-227, 1929.  
*Blepharocera similans*  
   nJohannsen, Psyche 36, 123-124, 1929.  
*Blepharonycha*—n. gen., melanoptera  
   nFall, Cal. Acad. Sci. Proc. ser. 4, 16, 392-394, 1927.  
*Blissus leucopterus* (Chinch bug)\*  
   Bainor, Kan. Union Farm. 20; 21, 3, 1928; 21; 16, 2, 1928  
   Berger, Citrus Industry 6; 10, 10, 1925; 7; 8, 12, 16, 17, 1926.  
   Call, Kans. R. f. 1926-28, 79-80.  
   Christie, Ind. R. 37, 25, 1924.

- Cooley, Mont. B. 170, 25, 1925.  
 Cooper, Fla. Farm. 31; 18, 6, 1929.  
 Crawford, Neb. C. 26, 107, 1925.  
 Davis, Ind. Farm. Guide, 85, 1372, '29.  
 iFlint & Larrimer, U.S.F.B. 1498, 16 p.  
 Harman, Mich. Bd. Agr. 65, 204-205, 1927.  
 ibHarper & Haston, J. Amer. Soc. Agron. 21, 1016-7, 1929.  
 Haseman, Mo. Ext. C. 176, 1926, 4 p.  
 Haseman & Sullivan, Mo. B. 228, 49, 1925; Mo. B. 236, 52, 1926.  
 Hayes & Johnston, J. Agr. Res. 31, 575-583, 1925.  
 iKelly, J. Ec. Ent. 19, 121-123, 1926.  
 il-hKelly, Kans. Ext. B. 62, 14-18, 1929.  
 Lambert, Gas Age 56, 109, 1925.  
 iMcColloch, Kans. Ent. C. 113, 1925, 6 p.  
 iMcColloch, Kans. St. Bd. Agr. Bien. R. 24, 36-45, 1925.  
 il-hMohler, Kans. St. Bd. Agr. Quar. B. 48: 191, 218-221, 1929.  
 biPainter, Ann. Ent. Soc. Amer. 21, 232-241, 1928.  
 Pepper, Clemson Col. S. C. Weekly News Notes 14: 52, 1926.  
 Pettit, Mich. Sp. B. 183, 63-65, 1929.  
 Reppert, Farm & Ranch, 48; 22, 18, 1929.  
 iSwenk, Neb. C. 28, 1925, 34 p.  
 Throckmorton, Country Gentlem. 92; 12, 62, 1927.  
 Timmons, Ohio Ext. Serv. News 11; 2, 7, 1925.  
 Watson, Citrus Indus. 6; 11, 26, 1925.  
 Watson, Citrus Industry 8: 10, 34, '27.  
 Watson, Fla. Grower 32: 10, 17, 1925.  
 Watson, Fla. P. B. 371, 1925.  
 Watson & Bratley, Fla. B. 209, 18-19, 1929.  
 Watson, Fla. Dept. Agr. Quar. B. 39: 3, 180-182, 1929.  
 Wehrman, Iowa Agricult. 25, 36, 1924.  
 iWilson, U. S. D. A. C. 51, 1929, 6 p.  
 Y. P., Dairy Farm. 23; 20, 34, 1925.  
 Yothers, Cit. Indus. 7: 1, 44, 1926.
- Blissus occidus**  
 King, Sci. Agr. 9, 383, 1929.
- Blister beetles**  
 biBaerg, Ark. B. 201, 3-8, 1925.  
 Baerg, Farm & Ranch 44; 31, 29, 1925.  
 Baerg, Farm & Ranch 45; 31, 11, '26.  
 Boving, J. Wash. Acad. Sci. 13, 162, 1923.  
 Christie, Ind. R. 40, 38, 1927.  
 Compton, Ill. C. 297, 19-20, 1925.  
 iDavis, Ind. Farm. Guide 85, 981, 1929.  
 Herrick, Rural N. Y. 84, 1377, 1925.  
 Ingram, Rice Jour. 28: 11, 15, 1925.  
 Lieber, Ind. Dept. Conserv. R. 8, 53, 1926.  
 MacLeod, Penn. St. Coll. C. 122, 12, 1929.  
 Mote, Oreg. C. 65, 36, 1926.  
 Pettit, Mich. St. Bd. Agr. R. 63, 666-668, 1924.  
 Pettit, Mich. Sp. B. 183, 4, 1929.  
 Sanborn, Okla. Ext. News 6: 11, 4, 1925.
- Blister mite, see Eriophyes pyri.**  
**Blood-red ladybeetle, see Cycloneda sanguinea immaculata**  
**\*Blood-sucking conenose, see Triatoma sanguisuga**  
**Blood-sucking insects**  
 Root, United Fruit Co. Med. Dept. R. 13, 207-209, 1925.  
**Blossom worm (Cranberry), see Epiglaea apiata**  
**Blue bug, see Argas miniatus**  
**Blue horntail, see Sirex juvencus cyanus**  
**Blue pine borer, see Callidium antennatum**  
**Blue tiger beetle, see Cicindela sexgutta**  
**\*Blueberry flea beetle, see Haltica torquata**  
**Blueberry insects**  
 Doak, Ind. Acad. Sci. Proc. 43, 441-444, 1928.  
 Lipman, N. J. R. 47, 20, 1926, 1927.  
 ibPhipps, Mc. B. 340, 201-216, 1927.  
 Phipps J. Ec. Ent. 22, 137-140, 1929.  
**\*Blueberry maggot, see Rhagoletis pomonella**  
**Blueberry thrips, see Frankliniella vaccinii**  
**Blueberry tipworm, see Contarinia vaccinii**

- Blue-grass billbug, *see* *Sphenophorus parvulus*
- Blue-grass plant bug, *see* *Miris dolabratus*
- Blunt-nosed leafhopper, *see* *Euscelis striatulus*
- Boalida*, n. gen., *gyona*  
nSchaus, Wash. Ent. Soc. Proc. 31, 49, 1929.
- Boarmia* sp.  
Woo, J. Econ. Ent. 19, 413-414, 1926.
- \*Body louse, *see* *Pediculus humanus corporis*
- Boethoos cinctata, globosa*  
niHaviland-Brindley, Zoologica, N. Y. 6, 249-250, 1925.
- Bogeria buccata*  
bMiller, Ent. News 39, 13-15, 1928.
- Bolbocerosoma confusum*  
nBrown, Can. Ent. 60, 194, 1928.
- Bolbocerosoma hamatum*  
niBrown, Can. Ent. 61: 213-214, 1929.
- Bolbocerosoma lepidissimum*  
nBrown, Can. Ent. 60, 193, 1928.
- Bolbodera*, n. gen., *scabrosa*  
Bruner & Fracker, Ann. Ent. Soc. Amer. 19, 247-248, 1926.
- Bolbonota aspidistrae*  
niHaviland-Brindley, Zoologica, N. Y. 6, 241, 1925.
- Boletina atra, crassicauda*  
niVan Duzee, Cal. Acad. Sci. Proc. 17; 2, 44-45, 1928.
- Bolitophila dubiosa*  
niVan Duzee, Cal. Acad. Sci. Proc. 17; 2, 32, 1928.
- Boll, Jacob  
iGeiser, Amer. Midland Nat. 11, 439-452, 1929.
- \*Boll weevil, *see* *Anthonomus grandis*
- \*Boll worm, *see* *Chloridea obsoleta*
- Bolla histior*  
nDyar, Ins. Insc. Mens. 14, 141, 1926.
- Boloschesis* spp.—Key  
Schaeffer, Proc. Ent. Soc. Wash. 28, 182-187, 1926.
- Bolteria* spp.—Key  
Knight, Brooklyn Ent. Soc. B. 23, 129-132, 1928.
- Bombidae**  
Neave, Ent. News 37, 252-254, 1926.
- Bombomelecta callura, cultura*  
nCockerell, Pan-Pac. Ent. 3, 58, 1920.
- Bombomima huron, posticata, vorax*  
nBromley, Can. Ent. 61, 158-159, 1929.
- Bombycia verdugoensis*  
nHill, S. Cal. Acad. Sci. B. 20: 1, 6-7, 1927.
- Bombylius major*  
Skelthorne, Farm & Rauch Rev. 15, 22: 3, 4, 1920.
- Bombyx mori* (Silkworm)\*  
ibCampbell, J. Gen. Physiol. 9, 433-443, 727-733, 1926.  
Campbell, J. Ec. Ent. 20, 88-90, 1927.  
Chandler, J. Jam. Agr. Soc. 30, 339, 1926.  
bGlaser, J. Ec. Ent. 18, 769-771, 1925.  
biGlaser, Ann. Ent. Soc. Amer. 19, 180-192, 1926.  
MacDill, Sci. News L. 16; 441, 173-175, 1929.  
iWilson, Nat. Mag. 8, 355-359, 1926.  
iYoutz, Sci. Amer. 133, 166-167, 1925.
- Bombyx mori*—Arsenic  
bCampbell, J. Pharmacology, 28, 277-285, 1926.  
Campbell, J. Gen. Physiol. 9, 727-733, 1926.
- Bombyx mori*—Heart-beat reversed.  
Gerould, Internat. Cong. Ent. 4, Tr. 2, 516-522, 1929.
- Bombyx mori*—Protozoan parasites  
Cleveland, Science n.s., 63, 168, 1926.
- Bont tick, *see* *Amblyomma hebraeum*
- \*Booklouse, *see* *Troctes divinatoria*
- Boophilus*, *see* *Margaropus*
- Borboridae**—N. American  
Spuler, Can. Ent. 57, 99-104, 1925.
- Borborus* spp.  
niSpuler, Brklyn. Ent. Soc. 20, 4-14, '25.
- Bordeaux mixture, *see* Spray materials  
—Bordeaux
- Boreconca*—gen., *aguadilla*  
nDavis, J.N.Y. Ent. Soc. 36, 31-33, '28.
- Boriza ignatia*  
nSchaus, P.U.S.N.M. 73; 19, 34-35, '28.
- Boston fern scale*, *see* *Pinnaaspis aspidistrae*

- Bot flies, *see* Oestridae  
 Botanobia ainsliei  
   nCurran, Can. Ent. 59, 292-293, 1927.  
 Botanobia spp.  
   nCurran, Amer. Mus. Nov. 220, 8-12, 1926.  
 Botanobia salinaria  
   nCurran, Can. Ent. 59, 292, 1927.  
 Bothriocera signoreti  
   iMyers, Psyche, 36, 289-290, 1929.  
 Bothriocyrtium californicum  
   iShaw, Flower Grow. 16: 1, 33-34, 1929.  
 Bothriothorax californicus  
   Kamal, J. Ec. Ent. 19, 726, 1926.  
 Bothriothorax faridi  
   nKamal, Can. Ent. 58, 283-284, 1926.  
 Bothriothorax sp.  
   nKamal, J. Ec. Ent. 19, 726, 1926.  
 \*Boxelder aphid, *see* Periphyllus negundinis  
 Boxelder bud gall, *see* Cecidomyia negundinis  
 \*Boxelder bug, *see* Leptocoris trivittatus  
 Boxelder gall fly, *see* Cecidomyia negundinis  
 Boxelder leaf roller, *see* Gracilaria negundella  
 Boxwood insects  
   iHamilton, N. J. C. 179, 1926, 14 p.  
 \*Boxwood leaf miner, *see* Monarthropalpus buxi  
 Boxwood leaf roller, *see* Gracilaria negundella  
 Boxwood psyllid, *see* Psyllia buxi  
 Brachistes strigitergum  
   nCushman, P.U.S.N.M. 76: 25, 15, 1929.  
 Brachmia casca  
   nBraun, Trans. Amer. Ent. Soc. 51, 196, 1925.  
 Brachybothrium lincolnianum  
   niWorley, Annals Ent. Soc. Amer. 21: 619-620, 1928.  
 Brachycentrus n. gen., hirsutus, punctatus; nMetcalf & Brunner, Brklyn. Ent. Soc. B. 20, 211-213, 1925.  
 Brachycentrus sp.  
   Hisaw, Ecology 6, 126, 1925.  
   iNeedham & Christenson, Utah B. 201, 22, 1927.  
 Brachycistis spp.  
   nMalloch, P.U.S.N.M. 68, 3, 8-25, 1926.  
 Brachycoma acridiorum  
   Aldrich, J. Ec. Ent. 20, 592-593, 1927.  
 Brachycoma ruficauda  
   nAldrich, P.U.S.N.M. 74: 1, 10-11, '28.  
 Brachycoma sarcophagina  
   Frison, Ann. Ent. Soc. Amer. 19, 223-225, 1926.  
 Brachycoryna dolorosa  
   nVan Dyke, Pan-Pac. Ent. 1, 171-172, 1925.  
 Brachycoryna hardyi  
   Van Dyke, Pan-Pac. Ent. 1, 171, 1925.  
 Brachycryptus niger  
   nCushman, P.U.S.N.M. 67: 23, 7-8, '26.  
 Brachymeria fonscolombei  
   Rohwer, J. Wash. Acad. Sci. 17, 407, 1927.  
 Brachymeria intermedia  
   iBurgess & Crossman, U. S. Tech. B. 86, 116-118, 1929.  
 Brachymeria obscurata  
   Burgess & Crossman, U. S. Tech. B. 86, 118, 1929.  
 Brachyopa basilaris 120-121, nigricauda 121-122, punctipennis 181-182.  
   nCurran, Kans. Univ. Sci. B. 15, 1925.  
 Brachypeza brevitibia  
   niVan Duzee, Cal. Acad. Sci. Proc. 17: 2, 47, 1928.  
 Brachypterolus pulicarius  
   Hatch, J.N.Y. Ent. Soc. 36, 35-36, 1928.  
   iHervey, J. Ec. Ent. 20, 809-814, 1927.  
 Brachypteromyia sp.  
   iFerris, Pan-Pac. Ent. 4, 140-142, 1928.  
 Brachyrhinus cribricollis  
   Ryan, Cal. Agr. Mo. B. 18, 567, 1929.  
   Van Dyke, Pan-Pac. Ent. 6: 8, 1929.  
   ———Cit. Leaves 9; 11, 28-31, 1929.  
 Brachyrhinus ovatus (Strawberry root weevil, Strawberry crown girdler)  
   Britton & Zappe, Conn. B. 292, 163, '27.  
   Cooley, Mont. B. 170, 28, 1925.  
   Cooley, Proc. Mont. Hort. Soc. 28, 100-101, 1926.  
   Crowley, Wash. B. 230, 27, 1929.



**Brachyrhinus ovatus** *Cont'd*

Dean, Cal. Dept. Agr. Sp. Pub. 54, 44, 1925.

Downes, J. Ec. Ent. 20, 695-698, 1927.

Downes, Proc. Ent. Soc. B. C. 25: 16, 1928.

Essig, Insects of Western No. Amer. 1926, 492-493.

Frank, Market Growers J. 38, 358-359, 1926.

Frank, West. Fruit, Flower & Garden 8; 4, 7, 1926.

Frank, Wash. St. Hort. Assoc. Proc. 21, 154-158, 1927.

iGibson & Twinn, Can. Dept. Agr. B. 112, 66, 1929.

Jardine, Oreg. Bien. Rept. 1924-1926, 100, 1926.

Long, Better Fruit, 23; 11, 26, 1929.

iMacoun & Davis, Canada Dept. Agr.

B. 80 (n.s.), 47-49, 1927.

iMelander & Spuler, Wash. B. 199, 1926, 22 p.

iMote & Wilcox, Oreg. C. 79, 1927, 24 p.

Park, Oreg. St. Bd. Hort. Bien. R. 19, 47, 1927.

Peirson, Me. For. Serv. B. 5, 101, 1927.

Robertson, B. C. Dept. Agr. R. 22, Q. 20-21, 1928.

Scholl & Stephens, Texas Dept. Agr. B. 84, 16, 1925.

Simmons, Better Fruit, 21: 3, 14, 1926.

Sorenson, Utah B. 209, 54, 1929.

Teutsch, Better Fruit 21: 12, 5, 1927.

Teutsch, Amer. Fr. Grow. Mag. 48: 3, 25, 1925.

Webster, Wash. R. 36, 21-23, 1926.

White, Agr. J. Brit. Col. 9, 270-271, 1925.

**Brachyrhinus rugifrons**

iChittenden, Can. Ent. 57, 290-291, 1925.

Frank, Proc. Wash. St. Hort. Assoc. 21, 154-158, 1927.

Newton, Colo. Ent. C. 51, 16-17, 1920.

**Brachyrhinus rugosostriatus**

Buchanan, Can. Ent. 59, 183, 1927.

Jardine, Oreg. Bien. Rept. 1924-1926, 100, 1926.

**Brachyrhinus** spp.

Brown, Oreg. B. 225, 19, 1927.

Frank, Better Fruit, 21: 1, 5-6, 1926.

**Brachyrhinus sulcatus** (Black vine weevil)

Anderson, B. C. Ent. Soc. Proc. 26, 46-48, 1929.

iBritton & Zappe, Conn. B. 202, 163, 1927.

Crowley, Wash. B. 230, 26-27, 1929.

Frank, Proc. Wash. St. Hort. Soc. 21, 154-158, 1925.

Jardine, Oreg. Bien. Rept. 1924-1926, 100, 1926.

Park, Oreg. St. Bd. Hort. Bien. R. 19, 47, 1927.

Smith, J. Ec. Ent. 20, 127-131, 1927.

**Brachys mositana**

nFisher, P.U.S.N.M. 66; 31, 36-37, 1925.

**Brachys nevermanni**

nFisher, P.U.S.N.M. 76; 6, 19-20, 1929.

**Brachys takana**

nFisher, P.U.S.N.M. 66; 31, 35-36, 1925.

**Brachyspasta**—n. gen., *wickhami*

nVan Dyke, Cal. Univ. Pub. Ent. 4, 451-452, 1928.

**Brachystola behrensii**

Hebard, Trans. Amer. Ent. Soc. 51, 279, 1925.

**Brachystola magna** (Lubber grasshopper)\*

Cooley, Mont. B. 170, 23, 1925.

Westmoreland, Fla. Ent. 11, 54, 1928.

**Brachytalis**, n. gen., *fuscoalis* 205-206, *fuscus* 204-205; nMetcalf &

Brunner, Brooklyn. Ent. Soc. B. 20, '25.

**Bracon crassifemur**

nMuesebeck, P. U. S. N. M. 60: 16, 9-10, 1927.

**Bracon gibbosus**

iUnderhill, Va. Poly. B. 251, 16, 1926.

**Bracon vulgaris**

iHawley, Utah C. 54, 12, 1925.

**Braconidae**

iBrues, Amer. Acad. Arts & Sci. Proc. 61, 205-435, 1926.

iMuesebeck, P.U.S.N.M. 60: 16, '27, 73 p.

**Bradythrips hesperus**

nHood, Psyche 32, 68-69, 1925.

- iHood and Williams, Ann. Ent. Soc. Amer. 20, 4-5, 1927.
- Braggia**—n. gen.  
niPalmer, Ann. Ent. Soc. Amer. 22, 1929.
- Braggia echinata**  
niPalmer, Ann. Ent. Soc. Amer. 22, 29-30, 1929.
- Braula coeca**—(Bee louse)  
Argo, J. Ec. Ent. 19, 170-174, 1926.  
Bliss, Iowa Ext. B. 138, 1926, 16 p.  
Champlain, Am. Bee. J. 66, 113, 1926.  
Paddock, Iowa Ext. B. 154, 19, 1929.  
bPhillips, U. S. D. A. Dept. C. 334, 1925, 11 p.
- Braunsia metanastriae, partita, pleuralis**  
nBruce, Proc. Amer. Acad. Arts & Sci. 61, 289-292, 1926.
- Brazilians peruviana**  
nShannon, P. U. S. N. M. 70; 9, 7-8, 1927.
- Bregmatomyrma n. gen., carnosa**  
niWheeler, Amer. Mus. Nov. 349, 3-6, 1929.
- Bremidae**  
iFrison, Trans. Amer. Ent. Soc. 51, 137-165, 1925; 52, 129-145, 1926; 53, 51-78, 1927.  
ibFrison, Biol. B. 52, 51-67, 1927.  
iFrison, Cal. Acad. Sci. Proc. 16; 12, 365-380, 1927.  
ibPlath, Biol. B. 52, 394-410, 1927.  
Scullen, Pan-Pac. Ent. 4, 69-76, 1927.  
bScullen, Pan-Pac. Ent. 4, 121-128, '28.
- Bremus americanus**  
Plath, Psyche 34, 127, 1927.
- Bremus appositus**  
Essig, Insects of Western No. Amer. 1926, 900.
- Bremus bimaculatus**  
bBequaert & Plath, Harvard Mus. Comp. Zool. B. 67, 275-276, 1925.  
ibFrison, Ent. Amer. 8, 159-222, 1928.
- Bremus caliginosus**  
niFrison, Cal. Acad. Sci. Proc. 16; 12, 376-377, 1927.
- Bremus centralis**  
Frison, Trans. Amer. Ent. Soc. 55, 107, 1929.
- Bremus crotchii**  
iFrison, Cal. Acad. Sci. Proc. 16; 12, 375, 1927.
- Bremus edwardsii**  
iFrison, Cal. Acad. Sci. Proc. 16; 12, 374, 1927.
- Bremus flavifrons**  
iFrison, Cal. Acad. Proc. 17; 12, 375-376, 1927.
- Bremus frigidus**  
Frison, Trans. Amer. Ent. Soc. 55, 113-116, 1929.
- Bremus impatiens**  
Frison, Biol. B. 52, 57, 1927.  
ibFrison, Bklyn. Ent. Soc. B. 24, 261-285, 1929.
- Bremus kincaidii**  
Frison, Can. Ent. 59, 32, 1927.
- Bremus neotropicus**  
nFrison, Brklyn. Ent. Soc. B. 23, 151-152, 1928.
- Bremus pennsylvanicus**  
Swingle, Ohio J. Sci. 27, 219-231, 1927.
- Bremus rohweri**  
nFrison, Trans. Amer. Ent. Soc. 51, 144-147, 1925.
- Bremus separatus**  
nbBequaert & Plath, Harvard Mus. Comp. Zool. B. 67, 275, 1925.
- Bremus sp.**  
Heighton, Portage Co. Hort. Soc. Proc. for 1928, 23-24.  
Losce, Rur. N. Y. 85, 740, 1926.  
Smith, Rur. N. Y. 85, 740, 1926.
- Bremus sp. and fertilization of plants**  
Mentor 14; 70, Mar. 1926.
- Bremus spp.**  
Frison, Am. Bee J. 65, 18-20, 1925.  
Frison, J. Ec. Ent. 19, 149-155, 1926.  
bFrison, Philippine J. Sci. 27, 113, 1925.  
bFrison, Ann. Ent. Soc. Amer. 19, 203-235, 1926.  
Frison, Rur. N. Y. 85, 636, 1926.  
Harmeling, Am. Bee J. 66, 275, 1925.  
Macy, Amer. Bee J. 67, 586, 1927.  
ibPlath, Amer. Nat. 69, 441-451, 1925.  
Root, Rur. N. Y. 85, 361, 1926.
- Bremus ternarius**  
bPlath, Psyche 34, 125, 1927.

- Bremus terricola**  
bPlath, Psyche 34, 122, 1927.
- Bremus vagans**  
nbBequaert & Plath, Harvard Mus.  
Comp. Zool. B. 67, 276-278, 1925.  
Frison, Biol. B. 52, 59, 1927.
- Bremus vosnesenskii**  
Hicks, Pan-Pac. Ent. 5, 97-100, 1929.
- Brenthis bellona**  
Holland, Ann. Carnegie Mus. 19, 45, 1928.  
McMurray, Ent. News 37, 57-58, 1926.
- Brenthis chariclea**  
Morse, Psyche 34, 10, 1927.
- Brenthis frigga**  
Holland, Ann. Carnegie Mus. 19, 44-45, 1928.
- Brenthis spp.**  
Holland, Annals Carnegie Mus. 19, 35-45, 1928.
- Brephos infans**  
Rogers, Brklyn. Ent. Soc. B. 20, 228, '25.
- Brevicoryne brassicae (Cabbage aphid)\***  
iBrittain, N. S. Dept. Nat. Resource  
B. 12, 80-81, 1927.  
Caesar, Ont. Dept. Agr. B. 325, 33-34, 1927.  
Compton, Canning Trade 48; 50, 10, 1925.  
iCompton, Ill. C. 297, 6-8, 1925.  
Compton, Ill. Hort. Soc. Trans. 60, 412-413, 1927.  
Cooley, Mont. B. 170, 24, 1925.  
Cory & Eaton, Md. B. 308, 420-421, 1929.  
Friend & Walden, Conn. B. 265, 319, 1925.  
Garcia, New Mex. R. 36, 19, 1925.  
iHeadlee, N. J. C. 178, 7-8, 1925.  
Jones & Ernst, Cal. Ext. C. 11, 30, 1927.  
Morrill, Citrus Industry 4: 5, 34, 1923.  
Mote, Oreg. C. 65, 25, 1926.  
Pettit, Mich. Sp. B. 183, 14, 1929.  
Watson, Fla. Dept. Agr. Quar. B. 39, 75, 1929.
- \*Bristly cutworm, see Polia renigera**
- \*Bristly rose slug, see Cladius isomerus**
- Brithura nymphica**  
niAlexander, P.U.S.N.M. 72; 2, 1-3, '28.
- British mosquito control Institute**  
Science 65, 430-440, 1927.
- \*Broad-bean weevil, see Mylabris rufimanus**
- Broad-horned flour beetle, see Gnathocerus cornutus**
- Broad-necked prionus, see Prionus latitollis**
- Broad-nosed grain weevil, see Callosophus latinasus**
- Broad winged katydid, see Microcentrum triangulatum**
- Brochymena affinis**  
Dennys, Proc. Ent. Soc. B. C. 24, 22, 1927.
- Bromelicolus anopheles**  
Dyar, Ins. Insc. Mens. 13, 25, 1925.
- Bronchelia funeraria**  
nSchaus, Proc. Ent. Soc. Wash. 29, 78, 1927.
- \*Bronze birch borer, see Agrilus anxius**
- \*Bronzed cutworm, see Nephelodes emmedonia**
- Brown apricot scale, see Lecanium corni**
- Brown-banded cockroach, see Supella supellectilium**
- Brown chicken louse, see Goniodes dissimilis**
- Brown citrus aphid, see Toxoptera aurantiae**
- Brown cricket, see Anuragryllus muticans**
- \*Brown dog tick, see Rhipicephalus sanguineus**
- Brown fungus, see Aegerita webberi**
- Brown mite, see Bryobia pratensis**
- \*Brown spider beetle, see Ptinus brunneus**
- \*Brown tail moth, see Euproctis chrysorrhoea**
- Brown tunnel worm of pecan, see Acrobasis sp.**
- Bruce's measuring worm, see Rachela bruceata**
- Bruchidae**  
ilbBrauer, J. Morphology & Physiology 46, 217-231, 1928.
- Bridwell, Proc. Ent. Soc. Wash. 31, 141-160, 1929.**

- Bruchomyia peruviana, shannoni*  
in Alexander, P.U.S.N.M. 75: 7, 4-6, '29.
- Bruchomyiinae*  
ib Alexander, P.U.S.N.M. 75: 7, '29, 9 p.
- Bruchophagus arachnophagus*  
n Girault, Ins. Insc. Mens. 13, 99-100, '25.
- Bruchophagus funebris* (Clover seed chalcid)\*  
Carter & Ruggles, Minn. Ext. Sp. B. 99, 7-8, 1925.  
Dalton, N. Y. C. Ext. B. 134, 12, 1926.  
i Essig, Insects of Western No. Amer. 1926, 845.  
Gillette, Colo. Ent. C. 47, 13, 1925.
- Bruchophagus sophorae*  
ni Crosby & Crosby, J.N.Y. Ent. Soc. 37, 13, 1929.
- Bruchus macula*  
Breitenbacher, Biol. B. 49, 265-275, 1925.
- Bruchus obtectus*, *see* *Acanthoscelides obtectus*
- Bruchus pisorum* (Pea weevil)\*  
i Caesar, Ont. Dept. Agr. B. 325, 51-52, 1927.  
Cooley, Mont. B. 170, 28, 1925.  
i Gibson & Twinn, Can. Dept. Agr. B. 112, 61, 1929.  
Herrick, Rur. N. Y. 88, 379, 1929.  
Langford, Colo. Ext. News Notes 861, May 1, 1926.  
Mote, Oreg. C. 65, 22, 1926.  
Pettit, Mich. Sp. B. 183, 39, 1929.  
i Watson, Fla. Dept. Agr. Quar. B. 39: 3; 118, 1929.
- Bruchus prolixus*—Alaska  
n Fall, Pan-Pacific Ent. 2, 204-205, 1926.
- Bruchus quadrimaculatus* (Four-spotted bean weevil)  
i Brauer, Ann. Ent. Soc. Amer. 18, 283-302, 1925.  
ib Brauer, J. Morphol. & Physiol. 46, 217-231, 1928.  
Breitenbecher, Biol. B. 48, 166, 1925.  
Breitenbecher, Can. Ent. 58, 131-133, 1926.  
Breitenbecher, Roy. Soc. Canada Trans. ser. 3, 5, sec. 20, 269-275, 1926.
- bi* Larson, Ann. Ent. Soc. Amer. 20, 37-79, 1927.
- Bruchus rufimanus* (Broad-bean weevil)\*  
Gibson & Twinn, Can. Dept. Agr. B. 112, 35, 1929.
- Bruchus* sp.  
Bridwell, Proc. Ent. Soc. Wash. 31, 112-113, 1929.  
Sheppard, Ont. Ent. Soc. R. 56, 52-53, 1926.
- Bruchus* spp.—Egg production  
Brauer, Okla. Acad. Sci. Proc. 5, 74-76, 1926.
- Bruchus (Acanthoscelides) trabuti*  
Bridwell, Proc. Ent. Soc. Wash. 31, 39-44, 1929.
- Brumptomyia peruensis*, *see* *Phlebotomus peruensis*
- Brychius albertanus*  
n Carr, Can. Ent. 60, 23-24, 1928.
- Brychius pacificus*  
n Carr, Can. Ent. 60, 24-25, 1928.
- Bryobia praetiosa* (Clover mite)\*  
Call, Kans. R. f. 1924-26, 76-77.  
Cooley, Mont. B. 170, 22, 1925.  
Dean, Kans. St. Hort. Soc. Bien. R. 39, 31, 1928.  
Fernald, Applied Ent. ed. 2, 382, 1926.  
Gibson & Twinn, Can. Dept. Agr. B. 112, 71, 1929.  
Miller, Ohio B. 386, 100-101, 1925.  
Miller, Ohio Bi-Mo. B. 10, 111, 1925.  
i Newcomer & Yothers, U. S. D. A. Tech. B. 89, 10, 1929.  
Taylor & Philip, Cal. C. 284, 43, 1925.  
Webster, Oreg. Farm. 49, 193, 1929.  
Weldon, Pac. Rur. Press 118: 1, 11, 1929.
- Bryobia pratensis*, *see* *Bryobia praetiosa*
- Bryobia* sp.  
i Heppner, Cal. Cult. 64, 329, 1925.
- Bryoptera phileas*  
n Schaus, Proc. Ent. Soc. Wash. 29, 80, 1927.
- Bucculatrix angustisquamella*  
n Braun, Trans. Amer. Ent. Soc. 51, 220, 1925.

**Bucculatrix arnicella**

nBraun, Trans. Amer. Ent. Soc. 51, 223, 1925.

**Bucculatrix canadensisella** (Birch skeletonizer)\*

Bailey, Vt. Agr. Bien. R. 14, 90, 1928.

iBritton & Zappe, Conn. B. 292, 144, 1927.

Felt, N. Y. St. Mus. B. 260, 49, 1925.

Felt, N. Y. St. Mus. B. 267, 41, 1926.

Felt, N. Y. St. Mus. B. 274, 162, 1928.

libFriend, Conn. B. 288, 395-486, 1927.

Hutchings, Ont. Ent. Soc. R. 56, 69-71, 1926.

Peirson, Me. For. Serv. B. 5, 40, 1927.

iSwaine & Hitchings, Can. Dept. Agr. Ent. B. 28, 19, 1926.

**Bucculatrix chrysothamni**

nBraun, Trans. Amer. Ent. Soc. 51, 219, 1925.

**Bucculatrix divisa**

nBraun, Trans. Amer. Ent. Soc. 51, 221-222, 1925.

**Bucculatrix gossypiella** (Cotton bucculatrix)

inMorrill, J. Ec. Ent. 20, 536-544, 1927.

niMorrill, Proc. Ent. Soc. Wash. 29, 95-97, 1927.

**Bucculatrix pomifoliella** (Ribbed cocoon maker)

Needham, Frost & Tothill, leaf-mining insects, 1928, 112-115.

**Bucculatrix saluatoria**

nBraun, Trans. Amer. Ent. Soc. 51, 221, 1925.

**Bucculatrix sexnotata**

nBraun, Trans. Amer. Ent. Soc. 53, 195, 1927.

**Bucculatrix sp.**

Needham, Frost & Tothill, Leaf-mining insects, 1928, 106-115.

**Bucculatrix tenebricosa**

nBraun, Trans. Amer. Ent. Soc. 51, 220, 1925.

**Bucculatrix thurberiella**

Essig, Insects of Western No. Amer. 1926, 750.

Hermes, J. Ec. Ent. 19, 268, 1926.

**Buchholzia, n. gen.**

Barnes & Benjamin, Pan-Pacific Ent. 3, 68-69, 1926.

\*Buck moth, *see* Hemilueca maia

**Buckellia, n. gen. (Asilidae)**

Curran, Can. Ent. 57, 156, 1925.

**Buckellia vitripennis**

nCurran, Can. Ent. 59, 85-86, 1927.

Buckeye scale, *see* Aspidiotus aesculi

Buckwheat fly, *see* Pollenia rudis

Bud mite, *see* Pediculopsis graminum

Bud moth, *see* Tmetocera ocellana

**Bueona, genus**

ibBare, Kans. Univ. Sci. B. 18: 265-319, 1928.

**Buenoa elegans, margariticea**

Bare, Ann. Ent. Soc. Amer. 19, 94-97, 1926.

**Buenoa scimitra**

niBare, Ent. News 36, 226-228, 1925.

Bare, Ann. Ent. Soc. Amer. 19, 96, 1926.

Buffalo gnat, *see* Eusimulium spp.

\*Buffalo treehopper, *see* Ceresa bubalus

**Bulaea lichatschovi**

Schott, Brklyn. Ent. Soc. B. 21, 17, '26.

\*Bulb mite, *see* Rhizoglyphus hyacinthi

**Bulb pests**

Brown, Fla. Ext. B. 48, 34-36, 1928.

Doucette, J. Ec. Ent. 19, 248-251, 1926.

Doucette, Cal. Dept. Agr. Sp. Pub. 85, 80-90, 1928.

iJacobsen, Cal. Agr. B. 14, 163-170, 1926.

Jarine, Oreg. Bien. R. f. 1926-28, 104, 1928.

iMcDaniel, Mich. Sp. B. 173, 1928, 23 p.

Mackie, Cal. Dept. Agr. Sp. Pub. 73, 57-60, 1927.

Marlatt, U. S. D. A. Ent. R. f. 1928, 18.

Amer. Flor. 64, 726, 1925.

USDA, PQCA, SRA, 97, 107, 1928.

**Bulb quarantine**

Jardine, Amer. For. 32, 114-115, 1926.

Calif. Cult. 67, 141, 1926.

National Nurseryman 33, 284-288, 1925.

**Bulb sterilizer plant, Galveston, Texas**

Amer. Florist 67: 2006, 3, 1926.

**Bulb sterilization—Hot water**

USDA, PQCA, SRA, 87, 36-39.

- iWeigel & Swenson, *Florists' Rev.* 58: 1503, 48-49, 1926.
- Bumblebee**, *see* *Bremus* sp.
- Bumble flower beetle**, *see* *Euphoria inda*
- Buprestidae**
- Beaulne, Quebec Soc. Protec. Pl. R. 20, 79-83, 1928.
- Chamberlain, *Buprestidae* of No. Amer. 1926, 289 p.
- Chamberlin, *Pan-Pac. Ent.* 5. 93-94, 114-116, 1928-1929.
- Fisher, *P.U.S.N.M.* 65; 9, 1-207, 1925.
- Fisher, *P.U.S.N.M.* 68: 7, 1925, 8 p.
- Fisher, *Proc. Ent. Soc. Wash.* 31, 177-182, 1929.
- Fisher, *P.U.S.N.M.* 76; 6, 1929, 20 p.
- iGood, *Ann. Ent. Soc. Amer.* 18, 251-276, 1925.
- iHardy, B. C. Provin. Mus. R. f. 1926, C32-C34, 1927.
- Keen, *Cal. Dept. Nat. Resources* B. 7, 57-58, 1928.
- bKnull, *Ohio St. Univ. Dept. Zool. & Ent. Cont.* 87, 1925, 71 p.
- Knull, *Ent. News* 40, 144-145, 1929.
- Mindinger, *N. Y. St. Col. For. Tech. Pub.* 17, 313-316, 1924.
- Buprestis apicans**
- Craighead, *Forest worker* 3: 4, 11-12, 1928.
- Buprestis aurulenta**
- iKeen, *Cal. Dept. Nat. Res. Div. For.* B. 7, 60-62, 1928.
- Buprestis cubensis, decipiens**
- nFisher, *P.U.S.N.M.* 65; 9, 157-158, '25.
- Buprestis spp.—Key**
- Fisher, *P.U.S.N.M.* 65; 9, 144, 1925.
- Bur-clover aphid**, *see* *Aphis medicaginis*
- Buris brunneus**
- nFletcher, *Ann. Ent. Soc. Amer.* 21, 228-229, 1928.
- Burlap bands—Insects under**
- Fisk, *Can. Ent.* 60, 183-184, 1928.
- Burnet moth**
- Shephard-Walwyn, *Nat. Mag.* 8, 142-143, 1926.
- Bush cricket**, *see* *Anaxipha exigua*
- Buttercup beetle**, *see* *Meloe angusticollis*
- Butterflies**
- Clark, *Psyche* 35, 226-228, 1928.
- Comstock, *So. Cal. Acad. Sci. B.* 25: 1, 28, 1926; B. 25: 2, 63-65, 1925.
- iHolland, *Butterfly guide*, 1923, 237 p.
- iKeil, *Nature Mag.* 10, 184-188, S. 1927.
- Mace, *Contemporary Rev.* 130, 368-372, S. 1926.
- Mousley, *Canad. Field Nat.* 40, 181-183, 1927.
- Randolph, *life among the butterflies*, 1926, 64 p.
- iShephard-Walwyn, *Nat. Mag.* 8, 36-38, 1926.
- iWatson & Lutz, *Natural History. N. Y.* 26, 165-183, 1926.
- Williams, *Ent. News* 37, 97-98, 1926.
- iCornell *Rur. Sc. Leaf.* 19: 4, 1926, 44 p.
- Butterflies—American**
- Clark, *Psyche* 36, 28-33, 1929.
- Butterflies, blue**
- Mace, 19th Cent. 96, 228-235, 1925.
- Butterflies—Butterfly farm**
- iPop, *Mech.* 48, 822, N. 1927.
- Butterflies—Butterfly's feathers**
- Lit. Digest*, 90, 21-22, J1. 10, 1926.
- Butterflies—California**
- Comstock, *So. Cal. Acad. Sci. B.* 24, 4, 38, 61-68, 1925.
- Comstock, *So. Cal. Acad. Sci. B.* 25, 63-65, 85-87, 1926.
- Comstock, *Butterflies of California*, 1927, 334 p.
- Butterflies—Carnivorous**
- Clark, *Smith. R. f.* 1925, 440-508, 1926.
- Butterflies—Marketing**
- Dutton, *Amer. Mag.* 101, 71-72, May, 1926.
- Butterflies—Md.**
- iMd. *Acad. Sci. Quar. B.* 5; 4, 58-64, '26.
- iMd. *Acad. Sci. Quar. B.* 6; 1, 8-11, 1927.
- Md. *Acad. Sci. B.* 6: 2, 23-30, 1927.
- Md. *Acad. Sci. B.* 6; 3, 36-39, 1927.
- Butterflies—Migration**
- Ball & Stone, *Science n.s.* 68, 110-111, Ag. 3, 1928.
- Bastin, *St. N.* 53, 94-95, N. 1925.
- Pop. *Mech.* 45, 741, May, 1926.

**Butterflies—N. J.**

iRummel, Brklyn. Ent. Soc. B. 22, 15-17, 1927.

**Butterflies—North Hatley, Quebec**

Mousley, Can. Field-Nat. 40, 178-179, 1926.

**Butternut curculio, *see* Conotrachelus juglandis****Butternut insects**

Peirson, Me. For. Serv. B. 5, 48, 1927.

**Butternut wooly worm, *see* Monophad-nus caryae****Buzonium—n. gen., crassipes**

niCook & Loomis, P. U. S. N. M. 72; 18, 13-15, 1928.

**Byturus unicolor (Raspberry fruit-worm)\***

Baker, Wash. St. Hort. Soc. Proc. 23, 190-192, 1928.

Baker, West Wash. B. 10-W, n.s., 14-15, 1928.

Baker, W. Wash. B. 14-W, n.s., 10, 12-14, 1929.

Ballard, Country Gentlem. 93; 2, 110, 1928.

Cooley, Mont. B. 170, 26, 1925.

Garlick, Canada Agr. B. 114, 18-19, 1929.

Linebaugh, Western Home, Fruit & Garden 8; 5-6, 17, 1926.

biMutchler & Weiss, N. J. Dept. Agr. C. 108, 5-6, 19, 1927.

Robertson, B. C. Dept. Agr. R. 23, Q. 21, 1929.

Walden, Conn. B. 275, 302, 1926.

**\*Cabbage aphid, *see* Brevicoryne brassicae****Cabbage butterfly, *see* Pontia rapae****\*Cabbage curculio, *see* Ceutorhynchus rapae****Cabbage insects**

Fite, New Mex. B. 151, 13-14, 1926.

Gersdorff & Davidson, Indus. & Eng. Chem. 21; 1, 251-253, D, 1929.

Mote, Oreg. C. 65, 23-26, 1926.

Pepper, Clemson Coll. S. C., Weekly News Notes 15: 7, 1, 1926.

Sefton, Market Grow. J. 38, 369, 1926.

Watson, Fla. Dept. Agr. Quar. B. 39; 3, 67-81, 1929.

**\*Cabbage looper, *see* Autographa brassicae****\*Cabbage maggot, *see* Phorbia brassicae****\*Cabbage seed-stalk curculio, *see* Ceutorhynchus quadridens****\*Cabbage webworm, *see* Hellula undalis Cacoecia argyrosipila (Fruit tree leaf roller)\***

lhCaesar, Ont. Fruit Grow. Assoc. R. 60, 39, 1929.

Cooley, Mont. B. 170, 29, 1925.

Criddle, Can. Ent. 59, 100-101, 1927.

Crosby, et al, N. Y. C. B. 498, 24-28, 1929.

Dean, Cal. Dept. Agr. Sp. Pub. 54, 43, 1925.

Essig, Insects of Western No. Amer. 1926, 735-736.

Evans, B. C. Dept. Agr. New Home, ser. 9, 68, 1927, 11 p.

Felt, N. Y. St. Hort. Soc. Proc. 70, 57, 1925.

Flint, Amer. Fruit Grow. 46; 9, 21, 1926.

Flint & Bigger, Ill. Nat. Hist. Surv. Ent. C. 9, 1926, 12 p.

Flint & Bigger, J. Ec. Ent. 19, 49-52, 1926.

Frost, Pa. St. Col. B. 204, 36-37, 1926.

ilbHarman, N. Y. Gen. B. 501, 1928, 31 p.

ilbHarman, N.Y. Gen. C. 111, 1926, 11 p.

Hawley, Utah. B. 192, 42, 1925.

Hawley, Utah B. 196, 1926, 15 p.

Iddings, Ida. B. 135, 29, 1925.

Longley, Idaho B. 157, 1928, 24 p.

Merrill, Cal. R. f. 1925-26, 64.

Newton, Colo. Ent. C. 47, 42-43, 1925.

Newton, Colo. Ent. C. 51, 17-19, 1926.

Parrott, Mich. St. Hort. Soc. R. 59, 80, 1929.

Parrott, N. Y. St. Hort. Soc. Proc. 74, 27-39, 1929.

Pettit, Mich. Ext. B. 78; 1929, 3 p.

Regan, Proc. Mont. Hort. Soc. 25, 7-14, 1927.

Robertson, Brit. Col. Dept. Agr. R. 19, K25-K26, 1925.

Ross, Canadian Hort. Fr. & Truck ed. 41, 26, 1928.

Thatcher, N. Y. Gen. R. 45, 36, 1926.

Thatcher, N.Y. Gen. R. 46, 44-45, 1927.

- Thompson, Proc. Mont. Hort. Soc. 25, 14-19, 1927.
- Venables, Proc. Ent. Soc. B. C. 21, 23-24, 1924.
- Vincent, Amer. Fruit Grow. 47, 2, 5, 1927.
- Wakeland, Ida. B. 137, 1925, 11 p.
- Worthley, Pa. St. Hort. Assoc. News, 6; 1, 85, 1929.
- Cacoecia cerasivorana* (Ugly-nest Caterpillar)\*
- Peirson, Me. For. Serv. B. 5, 49, 1927.
- Cacoecia conflictana*
- De Gryse, Can. Dept. Agr. Ent. Br. Pam. 47, n.s., rev. ed. 12, 1925.
- Cacoecia fervidana* (Oak ugly-nest tortricid)
- Pettit, Mich. R. 38, 219, 1925.
- Cacoecia fumiferana* (Spruce budworm)\*
- ibBailey, Bot. Gaz. 80, 93, 1925.
- Bailey, Com. Agr. Vt. Bien. R. 13, 53-55, 1926.
- Caverhill, British Columbia Dept. Lands & Forest Br. R. f. 1924, E18, 1925.
- Chamberlin, Amer. For. 33, 143, 1927.
- Craighead, Can. Dept. Agr. B. n.s., 37, 28-91, 1924.
- Gibson, Roy. Soc. Can. Trans. Ser. 3, sec. 5, 19, 195-206, 1925.
- Graham, J. Ec. Ent. 18, 337, 1925.
- Keen, Cal. Dept. Nat. Resources B. 7, 81-83, 1928.
- ibPeirson, Me. For. Serv. B. 5, 60-64, '27.
- iPeirson, Me. For. Serv. B. 5, 116-117, 1927.
- Snyder, Nature, Mag. 5, 312, 1925.
- Swaine, Can. Dept. Agr. Pam. 97, 4, 1928.
- Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 25, 1926.
- Caecoecia obsoletana* (Oblique-banded strawberry leaf roller)\*
- Cooley, Proc. Mont. Hort. Soc. 28, 102, 1927.
- iFulton & Branson, Iowa C. 110, 1-8, 1928.
- Cacoecia persicana*—Nova Scotia
- Gilliatt, Ont. Ent. Soc. R. 58, 35-36, 1928.
- Gilliatt, Ont. Ent. Soc. R. 59, 11, 1929.
- Cacoecia rosaceana* (Oblique-banded leaf roller)\*
- Brittain, N. S. Dept. Nat. Resource B. 12, 30, 1927.
- Britton, Conn. B. 285, 276, 1927.
- Downes, Proc. Ent. Soc. B. C. 25, 16, 1928.
- Gilliatt, Ont. Ent. Soc. R. 58, 31-33, 1928.
- Peirson, Me. For. Serv. B. 5, 49, 1927.
- Venables, Proc. Ent. Soc. B. C. 21, 24-25, 1924.
- Whitehead, Proc. Acad. Ent. Soc. 10, 76-79, 1925.
- Caconema radiciola*
- Merrill, Cal. R. f. 1925-26, 65.
- Merrill, Cal. R. f. 1927-28, 73-74, 1929.
- Cactoblastis leithella*
- nDyar, Proc. Ent. Soc. Wash. 30, 135, 1928.
- Cactobrosis fernaldalis*
- Dyar, Insc. Ins. Mens. 13, 223, 1925.
- Cactobrosis intersitialis, leuconips, phoenicis, strigalis*; nDyar, Ins. Insc. Mens. 13, 223-224, 1925.
- Cactus moths*—(Melitara)
- Dyar, Proc. Ent. Soc. Wash. 30, 133-137, 1928.
- \**Cactus* scale, *see* *Diaspis echinocacti*
- Cactus* weevil, *see* *Gerstaeckeria cal-thrata*
- \**Cadelle*, *see* *Tenebroides mauritanicus*
- Caduca* sp.—Placement of names
- Barnes & Benjamin, Bklyn. Ent. Soc. B. 21, 182-184, 1926.
- Caecilius nigrotuberculatus*
- niCurran, Can. Ent. 57, 292, 1925.
- Caenia turbida*
- nCurran, Can. Ent. 59, 91-92, 1927.
- Caenocara inepta*
- Blatchley, Can. Ent. 57, 166, 1925.
- Cainogenion ehippiatum*
- Notman, P.U.S.N.M. 67; 14, 11, 1925.
- Cainogenion* spp.—Key
- nNotman, P.U.S.N.M. 67; 14, 11, 1925.
- Calandra*, *see* *Sitophilus*
- "Calarnic" dust, *see* *Insecticides*—Calarnic dust



- Calcaritermes*, n. subgen.  
 Snyder, J. Wash. Acad. Sci. 15, 155, '25.
- Calcium arsenate*, see *Insecticides*, *Ar-*  
*senate of calcium*
- Calcium cyanide*, see *Insecticides*—*Cal-*  
*cium cyanide*
- Calcium fluosilicate*, see *Insecticides*—  
*Calcium flosilicate*
- Calcium hydroxide*, see *Insecticides* —  
*Calcium hydroxide*
- Caledonia*—n. gen., *petiola*  
 nCurran, Amer. Mus. Novit. 375, 12, 1929.
- Calendra aequalis*  
 iSwenk & Musschl, Neb. C. 37, 18-20,  
 1928.
- Calendra* genus—History  
 Pierce, Proc. Ent. Soc. Wash. 27, 113,  
 1925.
- Calendra granaria*, see *Sitophilus gra-*  
*narius*
- Calendra maidis* (Elephant bug)  
 iBarre, S. C. Rept. 41, 45, 1928.
- libCartwright, S. C. B. 257, 1929, 35 p.
- Calendra medoraensis*  
 Satterthwait, Ent. News 36, 270-271,  
 1925.
- Calendra multilineatus*  
 nSatterthwait, Ent. News 36, 269-270,  
 1925.
- Calephelis borealis*  
 Brower, Ent. News 40, 125-126, 1929.
- Calephelis louisana*  
 nHolland, Ent. News 40, 20, 1929.
- Calidota hadesia*  
 nSchaus, Proc. Ent. Soc. Wash. 29, 76,  
 1927.
- California case bearer*, see *Haplotilia*  
*sacramenta*
- California dog head*, see *Zerene eurydice*
- California eye gnat*, see *Hippelates pusio*
- California lead cable borer*, see *Scobicia*  
*declivis*
- \**California oak worm*, see *Phryganidia*  
*californica*
- California palm borer*, see *Dinapate*  
*wrighti*
- California pear sawfly*, see *Diphadnus*  
*californicus*
- California pine engraver*, see *Ips plasto-*  
*graphus*
- \**California red scale*, see *Chrysomphalus*  
*aurantii*
- California root borer*, see *Prionus cali-*  
*fornicus*
- California sister*, see *Heterochroa bre-*  
*dowi*
- California state butterfly*, see *Zerene*  
*eurydice*
- California tree cricket*, see *Oecanthus*  
*californicus*
- California tussock moth*, see *Hemero-*  
*campa vetusta*
- Caliope flaviceps*—Puparia  
 iMalloch, Proc. Ent. Soc. Wash. 29,  
 184, 1927.
- Caliope scutellata*  
 nCurran, Amer. Mus. Nov. 220, 14, 1926.
- Caliroa aethiops* (Rose sawfly)\*  
 Britton & Zappe, Conn. B. 292, 157, '27.  
 Guyton & McCubbin, Pa. Gen. B. 441,  
 8, 1927.
- Caliroa cerasi*, see *Eriocampoides lim-*  
*acina*
- Callachna*—n. gen.  
 nAldrich, P.U.S.N.M. 76; 2, 11, 1929.
- Callanthidium illustre*  
 bHicks, Can. Ent. 61, 1-8, 1929.
- Callesthes*—n. gen., *histrio*  
 nAldrich, P.U.S.N.M. 74; 1, 11-13, '28.
- Callibaetis* spp.—Key  
 iNeedham & Murphy, Lloyd Lib. B. 24,  
 49-51, 1924.
- bSeemann, J. Ent. & Zool. 19, 48, 1927.
- Calliceras whittakeri*  
 nFouts, Proc. Ent. Soc. Wash. 29, 173-  
 174, 1927.
- Callicorixa audeni*  
 niHungerford, Can. Ent. 60, 229, 1928.
- Callidium antennatum*  
 iPeirson, Mc. For. Serv. B. 5, 109, 1927.
- Callidium californicum*  
 Hopping, Can. Ent. 57, 106, 1925.
- Callidium hardyi*  
 nVan Dyke, Pan-Pac. Ent. 4, 112-113,  
 1928.
- Callidium pallidum*  
 nVan Dyke, Pan-Pac. Ent. 4, 111-112,  
 1928.

- Callidium vancouverense*  
Hardy & Preece, Pan. Pac. Ent. 4: 2, 65, 1927.  
nVan Dyke, Pan-Pac. Ent. 3, 104-105, 1927.
- Calliephialtes nubilipennis*  
ibTaylor Ent. Amer. 10, 68-69, 1929.
- Calligrapha alni*  
nSchaeffer, J. N. Y. Ent. Soc. 36, 290-291, 1928.
- Calligrapha amelia*  
nSchaeffer, J. N. Y. Ent. Soc. 36, 260, 1928.
- Calligrapha pnirsa*  
Ainslie, Can. Ent. 57, 209-211, 1925.
- Calligrapha serpentina*  
Brisley, Trans. Amer. Ent. Soc. 51, 171, 1925.
- Callimerus arcufer*  
iBoving, Proc. Ent. Soc. Wash. 30, 95-100, 1928.
- Callimicra acuminata, cyanoptera*  
nFisher, P. U. S. N. M. 66; 31, 41-44, 1925.
- Callimicra festiva, viridifrons*  
nFisher, P. U. S. N. M. 66; 31, 42-43, 45-46, 1925.
- Callimome aeneoscapum* 35, *aereum* 71-72, *alamedensis* 28-29, *alaskensis* 31, *albitarse* 80-81, *asteridis* 43-44, *atriplicis* 44, *baccharidis* 46-47, *bicoloratum* 73, *bruesi*—n name 19, *californicum* 85-86, *capillaceum* 74-75, *capite* 32-33, *castanopsidis* 64-65, *cinerosum* 84-85, *citripes* 48, *coccineum* 68-69, *coloradensis* 49, *cruentatum* 50-51, *dasyneurae* 56-57, *dubiosum* 24-25, *duplicatum* 27-28, *ferrugineipes* 33-34, *fullawayi* 19, *fulvum* 26-27, *gahani* 69-70, *giganticum* 65-67, *hirsutum* 74, *kinseyi* 44, *koebelei* 52, *longistigmum* 47-48, *mellipes* 23-24, *minutissimum* 78-79, *missouriensis* 42-43, *multicolor* 51-52, *occidentale* 79-80, *osborni* 93, *perplexum* 49-50, *pilularidis* 45, *prunicola* 91, *rhoditidis* 34, *robustum* 72-73, *rohweri* 58-59, *rosae* 35-36, *rubenidis* 78, *sativae* 77, *scalaris* 21, *solidaginis* 92-93, *strobiloides* 40-41, *sulcatum* 22, *tarsale* 76-77, *tricolor* 96, *tubularis* 39-40.
- niHuber*, P. U. S. N. M. 70; 14, 1927.
- Callimomoides*, n. gen., *fuscipennis*  
Girault, Ins. Insc. Mens. 14, 64-65, 1926.
- Calliopsis pugionis*  
nCockerell, Proc. Cal. Acad. Sci. ser. 4, 14; 11, 197-198, 1925.
- Calliphora erythrocephala*  
Felt, J. Ec. Ent. 19, 670, 1926.  
Felt, N. Y. St. Mus. B. 274, 19, 1928.  
Shepperd, C. Gentl. 94; 9, 69, 1929.  
iTao, Amer. J. Hyg. 7, 751, 1927.
- Calliphora melinda*  
niCurran, Amer. Mus. Novit. 375, 8, 1929.
- Calliphora noumea*  
inCurran, Amer. Mus. Novit. 375, 8, 1929.
- Calliphora vomitoria* (Bluebottle fly)  
Bailey, Animal Life of Carlsbad Caverns, 178-179, 1928.  
iGibson & Twinn, Can. Dept. Agr. B. 112, 14-15, 1929.  
Maheux, Quebec Soc. Protec. Pl. R. 18, 106, 1926.  
McDaniels, Mich. C. B. 106, 12, 1927.  
Stevenson, Ont. Dept. Agr. B. 337, 28, 1928.
- Calliphoridae*—American  
bShannon, Proc. Ent. Soc. Wash. 28, 115-139, 1926.
- Callipsyche behrii*  
Comstock, So. Cal. Acad. Sci. B. 27; 2, 62, 66, 1928.
- Calliptamus italicus*  
ibGranovsky, J. Ec. Ent. 19, 791-795, 1926.
- Callipterus juglandis*—Losses  
Thompson, Pan-Pac. Ent. 5, 122, 1929.  
Thompson, J. Ec. Ent. 22, 270, 1929.
- Callipterus robinae*  
iKnowlton, Fla. Ent. 13; 5, 1929.
- Callirhytis attigua* 88-89, *cornigera* 90, *gallaestriatae* 92-93, *mamillaformis* 96-97; nWeld, P. U. S. N. M. 68; 10, '26.
- Callithidium* gen.  
nCockerell, Proc. Cal. Acad. Sci. ser. 4, 14; 15, 365, 1925.
- Callococcus*—gen., *acaciae*, *leptospermi*  
iMorrison & Morrison, Proc. U. S. Nat. Mus. 71:17, 10-14, 1927.
- Callosamia angulifera* (Tulip tree silk-worm)  
Clark, Sci. Mo. 23, 394, 1926.

- Callosamia promethea** (*Promethea moth*)\*  
 Clark, Sci. Mo. 23, 394, 1926.  
 Miller, Ent. News 38, 12-13, 1927.  
 Rau, St. Louis Acad. Sci. Tr. 26: 143-145, 1929.  
 Rau & Rau, Tr. Acad. Sci. St. Louis 26, 143-146, 1929.  
 Robinson, Ann. Ent. Soc. Amer. 21: 409, 1928.
- Callosamia securifera**—Synonymy  
 Haimbach, Ent. News 39, 223, 1928.
- Callostolis polyrrhoda**  
 nDyar, Proc. Ent. Soc. Wash. 30, 138-139, 1928.
- Calocosmus chevrolati, hispaniolae.**  
 nFisher, Amer. Mus. Novitates 174, 14-16, 1925.
- Calophya pallidula**  
 nMcAtee, Ill. Nat. Hist. Surv. B. 16, 127, 1926.
- Calosoma alternans**  
 Porto Rico Dept. Agr. J. 9, 310, 1925.
- Calosoma frigidum**  
 Fletcher, Can. Ent. 61, 257, 1929.
- Calosoma inquisitor**  
 Burgess & Crossman, U. S. D. A. Tech. B. 86, 118-119, 1929.
- Calosoma sycophanta**  
 Britton, Conn. Pomol. Soc. Proc. 34, 50, 1925.
- ilBurgess & Crossman, U. S. Tech. B. 86, 80-88, 1929.**  
 Collins, J. Ec. Ent. 22, 416, 1929.  
 iCollins & Holbrook, J. Ec. Ent. 22, 562-569, 1929.  
 iHussey, Entom. Amer. 7, 22, 1926.
- Calospis hypochlora**  
 Gowdey, Jamaica Sci. & Agr. Dept. Ann. R. f. 1925, 10, 1926.
- Calpodes ethlius** (*Larger canna leaf roller*)  
 Gunder, Ent. News 36, 273, 1925.
- Calydna hemis**  
 nSchaus, Proc. Ent. Soc. Wash. 29, 73, '27.
- Camaterus n. gen., dicaeta**  
 Aldrich, Ins. Insc. Mens. 14, 97-99, '26.
- Cambarus blandingii**  
 Harned, Miss. R. 37, 27, 1924.
- Cambugia paulona**  
 nSchaus, Proc. Ent. Soc. Wash. 29, 82, '27.
- Cameraria hamadryedella**  
 iMiddleton. Garden Club B. 6: (ser. 4) 14-15, 1929.
- Camnula pellucida** (*Clear-winged grass-hopper*)\*  
 Buckell, Proc. Ent. Soc. B. C. 25: 12, 1928.  
 iCaesar, Ont. Dept. of Agr. B. 325, 8-9, 1927.  
 Criddle, Ont. Ent. Soc. R. 55, 14, 1925.  
 Hawley, Utah C. 54, 18, 1925.  
 Painter, Fluke & Granovsky, J. Ec. Ent. 18, 818-823, 1925.  
 Pettit, Mich. St. Bd. Agr. R. 63, 665-666, 1924.  
 Swenk, Neb. Res. B. 41, 30, 1927.
- Camouflage cricket, see Neduba carinata**
- \*Camphor scale, see Pseudaonidea duplex**
- \*Camphor thrips, see Cryptothrips floridensis**
- Campoctonoides beaulnei, buckelli, cur-rani, harringtoni, johanseni**  
 nViereck, Can. Ent. 57, 296-297, 1925.
- Campoctonoides spp.—key**  
 Viereck, Can. Ent. 57, 177, 1925.
- Camponotinae**  
 iPijoan, J. Ent. & Zool. 20, 41-42, 1928.
- Camponotus herculeanus** (*Large carpenter ant*)  
 Keen, Cal. Dept. Nat. Resources B. 7, 87, 1928.  
 iMiddleton, Garden Club. B. 6 (ser. 4), 26, 1929.  
 Peirson, Me. For. Serv. B. 5, 67, 1927.
- Camponotus howensis**  
 niWheeler, Amer. Acad. Arts & Sci. Proc. 62: 4, 152-153, 1927.
- Camponotus japonicus**  
 nWheeler, Amer. Mus. Nov. 361, 9-10, '29.
- Camponotus (Myrmamblys) itoi**  
 nWheeler, Amer. Mus. Nov. 255, 10-12, '27.
- Camponotus maculatus**  
 Buckell, Proc. Ent. Soc. B. C. 24, 34, '27.  
 Illingworth, Assoc. Haw. Pineapple Cannery Exp. Sta. B. 7, 10, 1926.
- Camponotus pennsylvanicus**  
 iAaron, Sci. Amer. 132, 318-319, 1925.  
 iGibson & Twinn, Can. Dept. Agr. B. 112, 50-51, 1929.  
 iSnyder, J. Amer. Inst. Architects 13, 277-279, 1925.
- Camponotus punctatissimus**  
 nWheeler, Amer. Mus. Nov. 259, 3, 1927.

- Camponotus (Tanaemyrmex) punctulatus**  
iWheeler, *Psyche*, 36, 102-106, 1929.
- Campoplegidea brooksi** 264, **citriscapa** 264-265, **crassata** 267, **diversicolor** 265, **downesi** 265-266, **edmontonensis** 266, **egregiata** 266; nViereck, *Roy. Soc. Canada Trans. ser. 3, sec. 5, v. 19, 1925*.
- Campoplegidea ellopiae**  
nWalley, *Can. Ent.* 61, 22, 1929.
- Campoplegidea okanaganensis** 270, **planata** 267, **planatella** 267-268, **rossi** 268, **seamansi** 268-269, **signata** 262-263, **stricklandi** 269, **vadosa** 269-270, **vibecifera** 270-271, **walleyi** 271.  
nViereck, *Roy. Soc. Canada Trans. ser. 3, sec. 5, v. 19, 1925*.
- Campopleginae—Canadian Collection**  
Viereck, *Can. Ent.* 57, 176-177, 223-228, 1925.
- Campopleginae—revision**  
Viereck, *Can. Ent.* 57, 198-204, 1925.  
Viereck, *Can. Ent.* 58, 2-8, 1926.  
Viereck, *Can. Ent.* 58, 196-201, 1926.
- Campoplex digitatus**  
nCushman, *P. U. S. N. M.* 67; 23, 11-12, '26.
- Campoplex frustanae**  
nCushman, *J. Agr. Res.* 34, 739-741, 1927.
- Campoplex spp.—Key**  
Burgess & Crossman, *U. S. Tech. B.* 86, 104, 1929.  
Viereck, *Can. Ent.* 57, 201-202, 1925.  
Viereck, *Can. Ent.* 57, 225-226, 1925.  
nViereck, *Can. Ent.* 58, 130-149, 176-182, 196-201, 219-225, 251-260, 276-282, 1926.
- Campsomeris spp.**  
iBradley, *Phil. Acad. Nat. Sci.* 80, 313-337, 1928.
- Campsomeris—Revision of new world species**  
iBradley, *Trans. Amer. Ent. Soc.* 54, 195-214, 1928.
- Campsomeris annulata**  
ilClausen et al, *U. S. D. A. B.* 1429, 31-33, 1927.
- Campsomeris completa**  
nRohwer, *J. Wash. Acad. Sci.* 17, 151-152, 1927.
- Campsomeris flammicoma**  
nBradley, *Trans. Amer. Ent. Soc.* 54, 209-211, 1928.
- Campsomeris hesterae**  
nRohwer, *J. Wash. Acad. Sci.* 17, 153-154, 1927.
- Campsomeris trifasciata**  
nBradley, *Phil. Acad. Nat. Sci.* 80, 322, 1928.
- Campsurus segnis—Mating flight**  
ibMorrison, *Ann. Ent. Soc. Amer.* 22, 61-69, 1929.
- Campsurus spp.—Key**  
niNeedham & Murphy, *Lloyd Lib. B.* 24, 15-23, 1924.
- Camptobrochis slevini**  
nVan Duzee, *Proc. Cal. Acad. Sci. Ser.* 4, 14, 395-396, 1925.
- Camptocladus clavicornis, marinus, pacificus**; niSaunders, *Ann. Ent. Soc. Amer.* 21: 523-531, 1928.
- Camptoprosopella diversa**  
nCurran, *Amer. Mus. Nov.* 220, 13, 1926.
- Campylocera hirsuta**  
nAldrich, *P. U. S. N. M.* 74; 8, 1-2, 1928.
- Campylocia n. gen., key**  
Needham & Murphy, *Lloyd Lib. B.* 24, 25, 1924.
- Campylocia ampla, anceps**  
inNeedham & Murphy, *Lloyd Lib. B.* 24, 25-26, 1924.
- Canace nudata**  
nCresson, *Trans. Amer. Ent. Soc.* 52, 257-258, 1926.
- Canadian leptura, see Leptura canadensis**
- Canadian spruce bark beetle, see Ips perturbatus**
- Cane fly, see Delphax saccharivora**
- Cane rust mite, see Tarsonemus spinipes**
- Canifa plagiata ab. millikini nov.**  
Hatch, *Ann. Ent. Soc. Amer.* 20, 366, 1927.
- Cankerworms, see also Alsophila pometaria, Paleacrita vernata**  
iBritton and Zappe, *Conn. B.* 292, 120-121, 1927.  
Chambers, *Wis. Hort.* 15, 158, 1925.  
iRoss, *Farm. Advoc.* 60, 417, 1925.

**Cankerworms *Cont'd***

- Snodgrass, Sm. R. f. 1924, 317-334.  
Zappe, Conn. B. 294, 261-262, 1928.

**Canning crops insects**

- Brown, Canning Age, 8, 895-896, 1927.  
Brown, Canning Age 8, 945-948, 1927.  
Glasgow, N. Y. Gen. C. 100, 1928, 7 p.  
Hedrick, N. Y. Gen. R. 48, 54-55, 1929.  
Jones, N. Y. Geneva C. 100, 1928, 7p.  
Thatcher, N. Y. Gen. R. 45, 40, 1926.

**Canopus burmeisteri, fabricii, germari**  
nMcAtee & Malloch, P. U. S. N. M. 72:  
25, 14-16, 1928.

**Canteloupe insects**

- Meyer, Valley Farmer & Citrus Grower  
3; 11-12, 5, 1926.

**Cantharis degener**

- nBlatchley, Can. Ent. 60, 62-63, 1928.

**Cantharis nuttalli**

- Cooley, Mont. B. 170, 27, 1925.

**Canthon laevis**

- Hayes, Ann. Ent. Soc. Amer. 21, 286,  
1928.

**Canthon perplexus**

- Blatchley, Can. Ent. 57, 166, 1925.

**Capitophorus artemisicola**

- iSoliman, Cal. Univ. Pub. Ent. 4; 6, 135,  
1927.

**Capitophorus elongatus, gregarius**

niKnowlton, Can. Ent. 61, 11-13, 1929.

**Capitophorus oestlundii**

niKnowlton, Can. Ent. 59, 235-236, 1927.

**Capitophorus utense**

niPack & Knowlton, Can. Ent. 61; 201-  
202, 1929.

**Capitophorus wasatchii**

niKnowlton, Can. Ent. 59, 238, 1927.

**Capritermes braziliensis, hopkinsi**

niSnyder, P.U.S.N.M. 68; 14, 64-65, 1926.

**Capritermes longinotus**

nSnyder, J. Wash. Acad. Sci. 16, 27-28,  
1926.

**Capritermes parallelus**

nSnyder, P.U.S.N.M. 68; 14, 67-69, 1926.

**Capsus externus**

- Knight, Ent. News 37, 258-262, 1926.  
Van Duzee, Pan-Pacific Ent. 3, 193,  
1927.

**Capsus simulans var. fulvipes**

- Knight, Can. Ent. 58, 59, 1926.

**Carabidae**

- Everly, Ohio J. Sci. 27, 155-156, 1927.

**Carabinae**

- Van Dyke, Pan-Pacific Ent. 1, 111-125,  
1925.

**Carabus auratus**

- Hussey, Entom. Amer. 7, 22, 1926.

**Carabus maenander**

- Fletcher, Can. Ent. 61, 257, 1929.

**Carabus nemoralis**

- bPark, J. N. Y. Ent. Soc. 37, 434-435, '29.

**Carabus vinctus** - Acid secretion of

- Frost, Psyche 36, 59, 1929.

**Caradrina astrica**

- nBarnes & Benjamin, Can. Ent. 58, 307,  
1926.

**Caradrina nigra**

- nBarnes & Benjamin, Can. Ent. 59, 4,  
1927.

**Caragana blister beetle, see *Lytta nuttalli*****Carcelia laxifrons, separata**

- Burgess & Crossman, U.S. D.A. Tech. B.  
86, 114-115, 136-138, 1929.

**Cardiastethus flaveolus**

- nBlatchley, Ent. News 39, 85-86, 1928.

**Cardiacephala myrmex** - Courtship

- iWheeler, J. Hered. 15, 487-490, 1925.  
Wheeler, Foibles of insects & men 1928,  
150-153.

**Cardiophiles bequaerti**

- nBrues, Proc. Amer. Acad. Arts & Sci.  
61, 282-283, 1926.

**Cardiophiles nigriceps**

- iChamberlin & Tenhet, J. Agr. Res. 33,  
21-27, 1926.

**Cardiophiles scapularis, striatifrons**

- nBrues, Proc. Amer. Acad. Arts & Sci.  
61, 279-281, 1926.

**Cardicondyla nuda**

- Illingworth, Assoc. Haw. Pineapple  
Canners Exp. St. B. 7, 11, 1926.

inWheeler, Proc. Amer. Acad. Arts & Sci.  
62; 4, 140, 1927.

**Cariacasia genus, capucina**

- nRehn, Trans. Amer. Ent. Soc. 54, 190-  
194, 1928.

**Carneocephala gen nov.**

- Ball, Fla. Ent. 11, 39, 1927.

**Carnivorous butterflies**

- Clark, Smithsonian R. 1925, 439-508.

**Carnivorous plants**

- Barnhart, J. Bot. Gard. 27, 13-14, 1926.  
Gordon, La Hacienda 20, 72-76, 1925.

- iSkutch, Sci. Amer. 139, 498-501, 1928.  
iSmith, Wis. Hort. 18, 287-288, 310, '28.  
\*Carolina grasshopper, *see* Dissosteira carolina  
\*Carolina mantis, *see* Stagmomantis carolina  
Carolinaia modestus  
nHottes, Proc. Biol. Soc. Wash. 39, 117, 1926.  
Carolinaia thois—on poison ivy  
niTisset, Fla. Ent. 12, 1-2, 1928.  
Carpenter ant, *see* Camponotus herculeanus  
Carpenter bee, *see* Xylocopa virginica  
\*Carpenterworm, *see* Prionoxystus robiniae  
\*Carpet beetle, *see* Anthrenus scrophulariae  
\*Carpet moth, *see* Trichophaga tapetzella  
Carpocapsa pomonella (Codling moth)\*  
Ackerman, Tenn. St. Hort. Soc. Proc. 22, 39-45, 1927.  
iAckerman, et al, Ark. Hort. Soc. Ark. Hort. Proc. 47, 19-30, 1926.  
Ackerman & Isely, Ark. Ext. C. 215, 1926, 4 p  
Alden and Yeomans, J. Ec. Ent. 20, 319-324, 1928.  
Allman, J. Econ. Ent. 22, 873-878, 1929.  
Balch, Wash. St. Hort. Assoc. Proc. 23, 16-22, 1927.  
Balch, Wash. St. Hort. Soc. Proc. 23, 16-19, 1928.  
Barre, S. C. Ann. R. 40, 43-44, 1927.  
Barry, Wash. St. Hort. Assoc. Proc. 23, 35-38, 1927.  
Bird, Purdue Agr. 21, 169, May 1927.  
Bourne, Mass. B. 226, 20, 33-38, 1926.  
Bourne, Mass. Frt. Grow. Assoc. R. 32, 181-190, 1926.  
iBourne, Conn. Pomol. Soc. Proc. 36, 34-40, 1927.  
Bourne, Mass. Fruit Grow. Assoc. R. 35, 120-122, 1929.  
Bourne, et al, Mass. Ext. Leaf 131, 5-6, 1929.  
iBourne & Whitcomb, Mass. B. 233, 55-72, 1927.  
iBrittain, N. S. Dept. Nat. Resource B. 12, 37-38, 1927.  
Burr, Neb. R. 41, 17, 1928.  
Call, Kans. R. f, 1926-28, 78-79.  
Chambers, Wis. Hort. 15, 123, 1925.  
Chandler, Ill. Hort. Soc. Trans. 60, 461-479, 1926.  
Coe, Nebr. St. Hort. Soc. R. f. 1927, 60-70.  
Cook, Ecological Soc. Amer. 10: 3: 289, 1929.  
Cory, Peninsula Hort. Soc. Tr. 41, 83-84, 1928; Tr. f. 1929, p. 30-31.  
Crawford, N.C. Dept. Agr. B. Jan. 1926, 10-11.  
Crosby, et al, N. Y. C. B. 498, 30-33, 1929.  
Cutright, Ohio St. Hort. Soc. Proc. 60, 110-117, 1928.  
Cutright & Houser, Ohio B. 431, 72-73, 1929.  
Davis, Hoosier Hort. 7, 110-111, 1925.  
Davis, Hoosier Hort. 9, 165-168, 1927.  
Davis, Ind. Hort. Soc. Tr. 67, 117-122, 1927.  
Davis, Ind. Hort. Soc. Tr. f. 1928; 28-34.  
Davis, Ind. Hort. Soc. Trans. 67, 117-122, 1928.  
iDavis, Ky. St. Hort. Soc. Tr. 73, 198-201, 1928.  
Davis, Ind. Acad. Sci. Proc. 38, 306-307, 1929.  
Davis & Porter, Ind. Hort. Soc. R. f. 1924, 149-150, 1925.  
Dean, Wash. Farm. 58, 583, 1928.  
Doran & Bourne, Mass. Fruit Grow. Assoc. R. 35, 112-114, 1929.  
Douglass, Peninsula Hort. Soc. Trans. f. 1927, 25-28.  
Dozier, Del. B. 147, 17-19, 1926.  
Dozier, Del. B. 152, 19-23, 1927.  
Dozier, Peninsula Hort. Soc. Tr. f. 1927, 12-14.  
Dozier, Del. B. 158, 21, 1928.  
iDozier, Peninsula Hort. Soc. Tr. 41, 74-78, 1928.  
iEssig, Insects of Western No. Amer. 1926, 731-734.  
Fite & Garcia, New Mex. B. 165, 14, 1928.  
Flanders, J. Ec. Ent. 18, 752-753, 1925.  
Flanders, J. Ec. Ent. 18, 838-9, 1925.  
Flanders, Pan. Pac. Ent. 3: 2; 93-94, 1926.  
Flanders, J. Ec. Ent. 20, 644, 1927.  
Flint, Ill. Hort. Soc. Tr. 60, 109-120, 455-461, 1926.

***Carpocapsa pomonella* Cont'd**

- Flint, Ill. Hort. Soc. Trans. 61, 100-105, 1927.
- Flint, Ill. Hort. 18: 3, 2, 1929.
- Fox, U. S. Bur. Ed. B. 1925: 15, 38, 1925.
- Fulton, Iowa Hort. Soc. Tr. 61, 50-52, 1927.
- Fulton, Iowa Hort. Soc. Tr. 62, 40-43, 1927.
- Garcia, N. M. R. 38, 44, 1927.
- Garcia, N. M. R. 39, 19, 40, 1928.
- Gentner, Mich. St. Hort. Soc. R. 55, 101-104, 1925.
- Gentner, Mich. C. B. 93, 3-6, 1926.
- Gillette, Colo. R. 39, 31, 1927.
- Gillette, Col. R. 40, 30, 1927.
- Gilmer, Kans. St. Hort. Soc. Bien. R. 39, 11-15, 1928.
- Gray, Ark. B. 215, 40, 1926.
- iHall, Ont. Ent. Soc. R. 59, 96-105, 1929.
- Haseman, J. Ec. Ent. 19, 53-55, 1926.
- iHaseman, Mo. B. 236, 50-51, 1926.
- iHaseman & Sullivan, Mo. B. 250, 1927, 16p.
- Headlee, J. Ec. Ent. 18, 206-214, 1925.
- Headlee, N. J. R. f. 1924, 284-290, 1925.
- Headlee, N. J. R. 46, 372, 1925.
- Headlee, N. J. St. Hort. Soc. Proc. 51, 97-104, 1925.
- Headlee, Penin. Hort. Soc. Tr. 38, 48-51, 1925.
- Headlee, N. J. R. 46, 378-379, 1926.
- Headlee, N. J. Hort. Soc. Proc. f. 1926, 89-100.
- Headlee, J. Ec. Ent. 20, 158-166, 1927.
- Headlee, Penin. Hort. Soc. Tr. f. 1927, 16-25.
- Headlee, N. J. R. 1926-27, 123-124, 1928.
- Headlee, N. J. R. 49: 139-145, 1928.
- Headlee, N. J. St. Hort. Soc. Proc. f. 1928, 46-47.
- Headlee, J. Ec. Ent. 22, 89-97, 1929.
- Headlee, Penin. Hort. Soc. Trans. 42, 87-94, 1929.
- Herms, J. Ec. Ent. 19, 264, 1926.
- Herms, Cal. Cult. 72, 69, 1929.
- Herms, J. Ec. Ent. 22, 55, 1929.
- Herms, J. Ec. Ent. 22, 78-88, 1929.
- Hoerner, J. Ec. Ent. 18, 423, 1925.
- Hoppert, Iowa St. Hort. Soc. Tr. 63: 51-56, 1928.
- iHough, et al, Va. B. 248, 1926, 27 p.
- Hough, Va. Hort. Soc. Proc. 31, 128-131, 1926.
- Houser & Cutright, Ohio St. Hort. Soc. Proc. 63, 115-122, 1928.
- Howard, U. S. D. A. Ent. R. f. 1927, 1-2.
- Jacobsen, Calif. Dept. Agr. Mo. B. 15, 130, 1926.
- Jacobsen, Calif. Dept. Agr. Mo. B. 16: 656, 1927.
- Jardine, Oreg. Bien. R. f. 1924-1926, 97, 1926.
- Jardine, Oreg. Bien. R. f. 1926-28, 105-106, 1928.
- Lipman, N. J. R. 47, 15, 1927.
- Lipman, N. J. R. 50, 143-145, 1929.
- List, J. Ec. Ent. 19, 748-752, 1926.
- List & Yetter, Col. B. 322, 1927, 46 p.
- List & Yetter, Exp. Sta. Rec. 58, 160-162, 1928.
- Luce, Wash. St. Hort. Assoc. Proc. 24, 175-176, 1928.
- McAlister, J. Ec. Ent. 22, 424-425, '29.
- ibiMcIndoo, Sm. Misc. Col. 81: 10, 10-22, 1929.
- Marlatt, U. S. D. A. Ent. R. f. 1928, 1-2.
- Marlatt, U. S. D. A. Ent. R. f. 1929, 1-2.
- iMartin, Kans. St. Hort. Soc. Tr. 38, 51-56, 1926.
- Martin, Neb. St. Hort. Soc. Ann. R. f. 1926, 81-88, 1926.
- Martin, Neb. Bd. Agr. R. f. 1926, 529-536, 1926.
- Merrill, Cal. R. 1924-25, 44, 1926.
- Monroe, New Mex. Ext. R. 4, 28, 1922.
- Mote, J. Ec. Ent. 19, 777-778, 1926.
- Moulton, Ida. St. Hort. Assoc. Proc. 34, 114-115, 1929.
- Newcomer, J. Ec. Ent. 18, 679-680, '25.
- Newcomer, Oreg. St. Hort. Soc. R. 19, 81-86, 1927.
- Newcomer, Wash. St. Hort. Soc. Proc. 23, 76-80, 1928.
- Newcomer, Wash. St. Hort. Soc. Proc. 24, 119-127, 1928.
- iNewcomer, Yothers & Whitecomb, U. S. F. B. 1326 rev 1929, 26 p.
- Newton, Colo. Ent. C. 47, 40-42, 1925.
- Newton, Colo. Ent. C. 51, 25-26, 35-40, 1926.

- Norton, Wash. St. Hort. Soc. Proc. 23, 11-13, 1928.
- O'Kane, et al, J. Ec. Ent. 20, 31-33, 1927.
- Olney, Ky. St. Hort. Soc. Tr. 71, 133-148, 1926.
- Parrott, Penn. St. Hort. Assoc. Proc. 65, 12-16, 1924.
- Parrott, N. Y. Hort. Soc. Proc. 72, 6, 1927.
- Perrine, Ill. Hort. Soc. Tr. 60, 509-511, 1926.
- Petch & Armstrong, Quebec Soc. Protec. Plants R. 17, 74, 1925.
- Peterson, J. Agr. Res. 37, 7, 399-416, 1928.
- Peterson & Haeussler, Ann. Ent. Soc. Amer. 21: 353-375, 1928.
- Petty, Internat. Cong. Ent. 4, Tr. 2, 382-388, 1929.
- Pettit, Mich. Ent. R. 1926, 6-11, 1926.
- Pettit, Mich. Bd. Agr. R. 65, 266-272, 1927.
- Pettit, Mich. St. Bd. Agr. R. 66, 339, 1928.
- Pettit, Mich. Ext. B. 79, 1929, 4 p.
- Phipps, Me. Ext. C. 100, 2-3, 1929.
- Porter, Ill. Hort. Soc. Tr. 60, 97-109, 1926.
- Porter, Ind. Hort. Soc. Trans. 66, 83-94, 1926.
- Porter, Ill. St. Hort. Soc. R. 1926-7, 97-109, 1927.
- Porter, Ind. Hort. Soc. R. f. 1926, 83-92, 1927.
- Porter, Kentucky St. Hort. Soc. Tr. 72, 131-141, 1927.
- Porter & Steiner, Ind. C. 151, 1928, 28 p.
- Porter, Internat. Cong. Ent. 4, Tr. 2, 389-396, 1929.
- iQuayle, Cal. B. 402, 1926. 33 p.
- Reed & Hall, Ind. C. 152, 9-10, 1928.
- Regan, Cal. Spray Chem. Co. Paper, 1927, 20p.
- Regan, Cal. Spray Chem. Co. Paper 1929. 16 p.
- Regan, Wash. St. Hort. Assoc. Proc. 23, 70-71, 1927.
- Regan & Davenport, J. Ec. Ent. 31, 330-337, 1928.
- Rippey, Purdue Agr. 22, 177, 1928.
- Robertson, B. C. Dept. Agr. R. 19, K 26, 1925; R. 20, 24, 1926; R. 22, Q. 23, 1928.
- Ruhmann, B. C. Dept. Agr. R. 19, K35-K36, 1925; R. 20, 33-34, 1926; R. 22, Q 37, 1928.
- Ryan, Los Angeles Co. Hort. R. f. 1924-25, 11-12, 1925.
- Ryan, Cal. Dept. Agr. Mo. B. 18, 245, 1929.
- Schoene, Va. St. Hort. Soc. Proc. 30, 147-152, 1925.
- Schoene, Va. St. Crop Pest Com., Quar. B. 7: 4, 17-18, 1926.
- Schoene, Va. Poly. R. f. 1919-27, 48-49.
- ilSchoene, et al. Va. Poly. B. 261, 1928, 56p.
- lSelkregg & Siegler, U. S. D. A. Tech. B. 42, 61, 1928.
- Siegler, N. J. St. Hort. Soc. Proc. 51, 104-116, 1925.
- Siegler, et al. J. Ec. Ent. 20, 699-701, 1927.
- Smith, J. Ec. Ent. 18, 546, 1925.
- Smith, Hilgardia 1: 17, 403-453, 1926.
- Smith, J. Ec. Ent. 20, 643-644, 1927.
- Smith, Cal. Cult. 73, 29, 1929.
- Smith, Cal. Dept. Agr. Mo. B. 18, 304-309, 1929.
- Spittall, Proc. Acadian Ent. Soc. 10, 64, 1925.
- Spooner, Ill. Nat. Hist. Surv. B. 16: 6, 441-446, 1927.
- Spuler, Ida. St. Hort. Assoc. Proc. 34, 100-111, 1929.
- Spuler, Wash. B. 237, 29, 1929.
- Spuler & Webster, Wash. St. Hort. Assoc. Proc. 24, 86-90, 1928.
- Steiner, Amer. Fr. Grow. Mag. 49: 6, 11, 1929.
- Steiner, J. Ec. Ent. 22, 648-654, 1929.
- Strickland, N. Y. St. Hort. Soc. Proc. 70, 66-72, 1925.
- Swenk, Neb. Hort. Soc. R. f. 1929, 31-49.
- Urbahns, Cal. Agr. B. 14, 175, 1926.
- Van Leeuwen, U. S. D. A. Tech. B. 90, 1-94, 1929.
- Volck & Regan, Cal. Citrog. 12, 250, 1927.
- Wakeland, Ida. St. Hort. Assoc. Proc. 34, 69-88, 1929.



**Carpocapsa pomonella** *Cont'd*

- Webster, Wash. St. Hort. Assoc. Proc. 22, 18-23, 1926.  
 Webster, Wash. St. Hort. Assoc. Proc. 23, 80-81, 1927.  
 Wickersham, Wash. St. Hort. Soc. Proc. 23, 31-34, 1928.  
 Wicks, Ida. St. Hort. Assoc. Proc. 34, 111-114, 1929.  
 Williams, Ohio B. 402, 61, 1927.  
 Williams, Ohio B. 417, 47, 1928.  
 Worthley, Pa. St. Col. B. 230, 43, 1928.  
 Worthley, Pa. St. Col. B. 243, 30-31, 1929.  
 Worthley, Pa. St. Hort. Assoc. News, 6; 1, 82-83, 1929.  
 Yetter, Colo. Ent. C. 47, 32-37, 1925.  
 Yetter, Colo. Ent. C. 51, 26-35, 1926.
- Carpocapsa pomonella**—**Banding**  
 iCutright & Houser, J. Ec. Ent. 22, 62-64, 1929.  
 Flint & Goff, J. Ec. Ent. 22, 675-679, '29.  
 Siegler, J. Ec. Ent. 22, 966-972, 1929.  
 Smith, Better Fruit 22: 11, 12-13, 1928.  
 Smith, Pac. Rur. Press, 118: 3; 55, 1929.
- Carpocapsa pomonella**—**Breeding cages**  
 Haseman, Mo. C. 161, 1927, 4p.
- Carpocapsa pomonella**—**Eggs**  
 Smith, J. Ec. Ent. 18, 837-838, 1925.
- Carpocapsa pomonella**—**Hibernation**  
 Chandler, J. Ec. Ent. 20, 315-318, 1928.
- Carpocapsa pomonella**—**Longevity**  
 Siegler & Brown, J. Ec. Ent. 21, 434, '28.
- Carpocapsa pomonella**—**Losses**  
 Hartzell, Mich. St. Hort. Soc. R. 57, 14, 1927.
- Carpocapsa pomonella**—**Oviposition**  
 Strickland, N. Y. St. Hort. Soc. Proc. 70, 69-70, 1925.
- Carpocapsa pomonella**—**Parasites**  
 Flanders, Pan-Pac. Ent. 3: 44-45, 1926.  
 Flanders, Pan-Pac. Ent. 6: 32, 1929.  
 Gillette, Col. R. 40, 31, 1927.  
 Porter, Ky. St. Hort. Soc. Tr. 72, 140-147, 1927.  
 Wakeland, J. Ec. Ent. 22, 985, 1929.
- Carpocapsa pomonella**—**Resistance to arsenicals**  
 Hough, J. Ec. Ent. 21, 325-329, 1928.
- Carpocapsa pomonella**—**Temperature**  
 bHeadlee, J. N. Y. Ent. Soc. 36, 147-163, 1928.

Shelford, Ill. Nat. Hist. Surv. B. 16: 5, 311-440, 1927.

**Carpocapsa pomonella** and walnuts

- Flanders, Pan-Pac. Ent. 3, 93-94, 1926.  
 Hodges, Pac. Rur. Press, 111, 635, 1926.  
 Klein, Cal. Cult. 64, 583, 1925.  
 Quayle, Cal. B. 402, 1926. 33 p.  
 Rundle, Cal. Cult. 72, 606-607, 1929.  
 Sasser, Cal. Fruit News 74; 1996, 3, 1926.  
 Smith, Cal. Cult. 68, 595, 1927.  
 Wolff, Cal. Cult. 69, 128, 530, 1927.

**Carpocapsa pomonella** and weather

- bShelford, Ill. Nat. Hist. Surv. B. 16, 311-437, 1927.

**Carpocapsa pomonella**—**Arsenical residue**

- Jardine, Oreg. Bien. R. f. 1926-28, 118, 1928.

**Carpocapsa pomonella**—**Radio information**

- Wolff & Wright, Cal. Cult. 70, 615, '28.

†**Carpocapsa pomonella**—**Sprays**

- Coe, Neb. Bd. Agr. R. f. 1927, 424-430, 1927.  
 iCummings, Vt. Ext. C. 49, 1, 1929.  
 Curtiss, Iowa R. f. 1927, 35, 1927.  
 DeSelle, Wash. St. Hort. Assoc. Proc. 23, 82-93, 1927.  
 Douglass, Penin. Hort. Soc. Tr. f. 1927, 25-28.  
 iDriggers, J. Ec. Ent. 22, 327-334, 1929.  
 Farrar, Ill. St. Hort. Soc. Tr. 63, 147-154, 1929.  
 Fluke, Wis. Hort. 18, 268, 1928.  
 Guyton, Canning Trade, 49: 47, 26, 1926.  
 Haseman & Sullivan, Mo. B. 244, 36, 1926.  
 Haseman, Sullivan & Turner, Mo. B. 228, 49, 1925.  
 Headlee, Penin. Hort. Soc. Tr. 42, 87-94, 1929.  
 Herbert & Leonard, J. Ec. Ent. 22, 72-78, 1929.  
 Herrick, Iowa Yrbk. Agr. 28, 243, 1928.  
 iHough, J. Agr. Res. 38, 245-256, 1929.  
 Jardine, Oreg. Bien. R. f. 1926-28, 101-102, 106-107, 1928.  
 Magill, Ky. St. Hort. Soc. Trans. f. 1925, 155, 1926.  
 iMiller, J. Ec. Ent. 22, 340-344, 1929.

- bNewcomer, J. Agr. Res. 33, 317-330, 1926.  
 Newcomer, Internat. Cong. Ent. 4, Tr. 2, 567-570, 1929.  
 Regan, J. Ec. Ent. 20, 249, 1927.  
 Regan, J. Ec. Ent. 22, 65-71, 1929.  
 iSmith, Wash. St. Hort. Assoc. Proc. 21, 80-87, 1925.  
 bSmith, Hilgardia (Cal. Expt. Sta.) 1, 403-453, 1926.  
 Smith, Diamond Walnut News 11; 1, 8-9, 1929.  
 Spuler, Wash. St. Hort. Soc. Proc. 23, 39-44, 1928.  
 ibSpuler, Wash. B. 232, 1929. 70 p.  
 Tesche, Pac. Rur. Press 117, 518, 1929.  
 iWiggins & Hoppert, Neb. C. 36, 16-18, 1928.
- Carpocapsa pomonella**—Toxicity of insecticides  
 Spuler, Wash. R. 36, 22, 1926.
- Carpocapsa pomonella**—Traps  
 Chase, Wash. Farm. 54, 259, 1928.  
 Childs, J. Ec. Ent. 18, 665-674, 1925.  
 Ebeling, Cal. Countrym. 15; 3, 10, 1927.  
 Howard, Cal. Cult. 70, 643, 1928.  
 Siegler & Brown, J. Ec. Ent. 20, 428-429, 1927.  
 iSpuler, Wash. St. Hort. Assoc. Proc. 22, 38-46, 1926.  
 iSpuler, Better Fruit, 21: 12, 9-10, 1927.  
 ibSpuler, Wash. B. 214, 1927. 12p.  
 Spuler, Wash. B. 229, 29, 1928.  
 Steiner, J. Ec. Ent. 22, 636-648, 1929.  
 Yothers, Wash. St. Hort. Assoc. Proc. 22, 53-64, 1926.  
 Yothers, J. Ec. Ent. 20, 567-575, 1927.  
 Yothers, J. Ec. Ent. 22: 805-811, 1929.
- Carpocapsa saltitans**  
 iMell, La Hacienda 24, 534, D. 1929.
- Carpocapsa splendana**  
 Dunlap, U. S. D. A., F. H. B., SRA 91, 60-61, 1927.
- Carpophilus dimidiatus** (Corn sap beetle)  
 iBack & Cotton, U. S. F. B. 1260; rev. Dec. 1925, 40-41.
- Carpophilus hemipterus** (Dried fruit beetle)  
 Horton, U.S.F.B. 1031; rev. O. 1926, 34.  
 Quayle, Cal. C. 315, 17, 1929.  
 iSmith & Hansen, Cal. C. 311, 23, 1927.
- Carposina** sp.  
 Haseman, Mo. Farm. 21, 447, 1929.
- Carrión beetles**, *see* Silphidae
- Carrión's disease**, *see* Verrugas
- †**Carrot beetle**, *see* *Ligyris gibbosus*
- Carrot insects**  
 Herrick, Rur. N. Y. 84, 663, 1925.
- †**Carrot rust fly**, *see* *Psila rosae*
- Cardisara gigantea**  
 Ferris, Can. Ent. 60, 244, 1928.
- Carteretta carteri**  
 nFox, Trans. Amer. Ent. Soc. 53, 209-210, 1927.
- Carthasis distinctus, gracilis**  
 nHarris, Brklyn. Ent. Soc. B. 20, 172-174, 1925.
- Carthasis uhleri**  
 nHarris, Ent. Amer. 9, 76, 1928.
- Cartodere argus**  
 iPettit, Mich. Ent. R. f. 1927, 19.  
 Pettit, Mich. St. Bd. Agr. R. 66, 355-356, 1927.
- Cartosyrphus ontario**  
 Curran, Can. Ent. 59, 73, 1927.
- Cartosyrphus rita**—Identity  
 Curran, Can. Ent. 59, 74, 1927.
- Caryobruchus** n. gen., spp.  
 nBridwell, Proc. Ent. Soc. Wash. 31, 148-160, 1929.
- Caryobruchus acrocomiae** 153, *buscki* 152-153, *curvipes* 156, *donckieri* 155, *giganteus* 155, *gleditsiae* 155-156, *lipasmatus* 152, *pararius* 153, *pergandeii* 153-154, *recticollis* 155, *revoli* 155, *rubidus* 155, *ruficornis* 154, *scheeleae* 151-152, *sparsepunctatus* 155, *testaceus* 155, *veseyi* 157; nBridwell, Proc. Ent. Soc. Wash. 31, 1929.
- Caryomyia** sp.  
 Felt, J. Ec. Ent. 22, 422, 1929.
- Caryopemon** sp.  
 Bridwell, Proc. Ent. Soc. Wash. 31, 143, 1929.
- Casca chinensis**—California  
 iCompere & Smith, Cal. Univ. Pub. Ent. 4, 71-73, 1927.
- Casca** sp.  
 Merrill, Cal. R. f. 1924-25, 45, 1926.  
 Smith, Citrus Leaves 5; 8, 3, 1925.
- Case-bearing clothes moth**,\* *see* *Tinea pellionella*

**Casinaria infesta**

Swezy, J. Ec. Ent. 19, 720, 1926.

**Cassididae**

iFerris and Nissen, Pan-Pacific Ent. 3, 169-172, 1927.

**Casthia miastagma**

nDyar, Ins. Insc. Mens. 13, 19, 1925.

**Castor hairy caterpillar, see Trabala vishnu****†Cat flea, see Ctenocephalus felis****Cat follicle mite,\* see Demodex cati****Cat-tail borer, see Lymnacia phragmitella****Cataglyphis dasymalis**

nDyar, Ins. Insc. Mens. 14, 148, 1926.

**Catagoniopsis, infernalis**

ngTownsend, Ins. Insc. Mens. 14, 29-30, 1926.

**Catalinovia**

ngTownsend, Ins. Insc. Mens. 14, 37-38, 1926.

**Catallagia gen., borealis**

Ewing, Proc. Biol. Soc. Wash. 42, 125-128, 1929.

**Catalonovia cauta**

nTownsend, Ins. Insc. Mens. 14, 38, 1926.

**Catalpa leaf miner, see Agromyza citreifrons****Catalpa midge, see Itonida catalpae****Catalpa sphinx\*, see Ceratomia catalpae****Catasticta angulifera, flisa, hollandi, lactea, nivalis; niAvinoff, Annals Carnegie Mus. 16, 357-360, 1926.****Catassomyia n gen., meronephada**

ngDyar &amp; Shannon, Ins. Insc. Mens. 13, 71-72, 1925.

**Cathartus advena (Foreign grain beetle)**

A. J. P. Mich. Farm. 173; 1, 2, 1929.

iBack &amp; Cotton, U. S. F. B. 1260; rev. Dec. 1925, 31.

Britton, Conn. B. 285, 276, 1927.

**Catocala andromedae, delilah, gerhardi**

Barnes &amp; Benjamin, Can. Ent. 59, 7-9, 1927.

**Catocala relictia**

iPierson, Me. For. Serv. B. 5, 42, 1927.

**Catocala sp.**

Cary, Ent. News 39, 83-84, 1928.

Harris, Ent. News, 40, 269-270, 1929.

**Catocala vidua**

Peirson, Me. For. Serv. B. 5, 46, 1927.

**Catocala viduata**

ilLeiby, N. C. Dept. Agr. B. Feb. 1925, 30-32.

iWoodard, Texas Dept. Agr. B. 81, 174, 1925.

**Catocala whitneyi**

Dodge, Ent. News 36, 267-268, 1925.

**Catocalinae - Sault Ste. Marie**

Preere, Can. Field Nat. 38, 170-171, 1925.

**Catolaccus hunteri**

Fenton &amp; Dunham, U. S. D. A. Tech. B. 112, 68, 1929.

**Catonia rufula**

nOsborn, Ann. Ent. Soc. Amer. 19, 355, 1926.

**Catophaenissa jonesaria**

inSchaus, Proc. Ent. Soc. Wash. 31, 50-51, 1929.

**Catopidae - Notes**

Hatch, Minn. Tech. B. 48, 13-15, 1927.

**Catopsilia - Generic status**

bKlots, Bklyn. Ent. Soc. B. 24, 203-211, 1929.

**Catopsilia - Key**

Forbes, Ann. Ent. Soc. Amer. 20, 475-479, 1927.

**Catopsilia etiolata**

nForbes, Ann. Ent. Soc. Amer. 20, 479-480, 1927.

**Catopsilia philea**

Engelhardt, Bklyn. Ent. Soc. B. 22, 250, 1927.

**Catopsilia statira**

niAvinoff, Ann. Carnegie Mus. 16, 360-361, 1926.

**Catorama herbarium**

bTaylor, Psyche 35, 44-50, 1928.

**Catorhintha divergens**

nBarber, J. N. Y. Ent. Soc. 34, 214-215, 1926.

**Cattle dip, see Dips for cattle****Cattle follicle mite\*- see Demodex bovis****Cattle grubs, see Hypoderma lineatum and H. bovis****Cattle lice**

Guyton, J. Ec. Ent. 19, 602-603, 1926.

Rudolph, Purdue Agr. 20, 78, 1925.

**Cattle red louse, see Trichodectes bovis****Cattle tick,\* see Margaropus annulatus****Cattleya fly, see Eurytoma orchidearum****Caulatops barberi**

nKnight, Brklyn. Ent. Soc. B. 21, 101-102, 1926.

**Cauliflower insects**

Hedrick, N. Y. Gen. R. 48, 59, 1929.

Huckett, N. Y. Gen. C. 80, 1925. 11p.

- iJones & Ernst, Cal. Ext. C. 11, 30-35, 1927.
- Caulophilus latinasus** (Broad-nosed grain weevil)  
Back & Cotton, U. S. F. B. 1260; rev. Dec. 1925, 8-9.  
Cal. Agr. Mo. B. 16, 541, 1927.
- Cave fauna**  
Barber, J. Wash. Acad. Sci. 18, 48-49, 1928.
- iE. A. P. Nat. Mag. 8, 339, 1926.
- iGibson & Twinn, Can. Dept. Agr. B. 112, 68-69, 1929.
- Ives, Elisha Mitchell Sci. Soc. J. 43, 84-90, 1927.
- Caveriella** sp.  
Brittain, Proc. Acadian Ent. Soc. 10, 35-36, 1925.
- Cea immacula**  
Barnes & Benjamin, Pan-Pacific Ent. 3, 67-68, 1926.
- Ceanothus silk moth**, *see* **Samia euryalus**
- Cebrio speratus**  
nFall, Psyche, 35, 146, 1929.
- Cecidomyia balsamicola**  
Peirson, Me. For. Serv. B. 5, 65, 1927.
- Cecidomyia destructor**, *see* **Phytophaga destructor**
- Cecidomyia manihot**  
iBequaert, Harvard Inst. Trop. Biol. & Med. Cont. 4, 204-209, 1926.
- Cecidomyia negundinis** (Boxelder bud gall)  
de Gryse, Can. Dept. Agr. Ent. Br. Pam. 47, n. s., rev. ed. 20, 1925.  
Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 53, 1926.
- \***Cecropia moth**, *see* **Samia cecropia**
- Cedar bark beetle**, *see* **Phloeosinus dentatus**
- Cedusa chuluota, munuenda**  
nBall, Can. Ent. 60, 200, 1928.
- Cedusa santaclara**  
niMyers, Harvard Biol. Lab.—Studies on Cuban Insects 1, 13-14, 1928.
- Celaenopsis americanus, pedalis**  
Miller, Ohio B. 386, 136, 137, 1925.
- Celatoria diabroticae**  
Arant, Ala. Poly. B. 230, 8, 1929.
- Celerio lineata** (White-lined sphinx)\*  
Engelhardt, Brklyn. Ent. Soc. B. 21, 27-28, 1926.
- Essig, Pan-Pacific Ent. 3, 145, 1927.
- Watson, Fla. Dept. Agr. Quar. B. 39; 3, 66, 1929.
- Watson, Fla. Dept. Agr. Quar. B. 39; 3, 143, 1929.
- Celery insects**  
Edmond, Mich. Sp. B. 157, 13-14, 1926.
- Celery leaf-tyer**, *see* **Phlyctaenia ferrugalis**
- \***Celery looper**, *see* **Autographa falcifera**
- \***Celery worm**, *see* **Papilio polyxenes**
- Celetothrips, n. gen., breviceps**  
nMorgan, Proc. Ent. Soc. Wash. 31, 1-3, 1929.
- Celiogona caesioannulata**  
Blake, Ill. Biol. Monog. 10; 4, 78, 1926.
- Celiptera valina**  
Barnes & Benjamin, Pan-Pacific Ent. 2, 21, 1925.
- Cellia oswaldoi**  
nBoyd, Amer. J. Hyg. Monog. Ser. 5, 31, 1926.
- Cellophane—Insect cages of**  
Smith, J. Ec. Ent. 22, 705, 1929.
- Celonites abbreviatus**  
Bequaert, Psyche 36, 78, 1929.
- Celyphus bisetosus**  
nMalloch, P. U. S. N. M. 74; 6, 8-10, '29.
- Celyphus puncticeps**  
nMalloch, P. U. S. N. M. 74; 6, 8, 1929.
- Centeter cinerea**  
iClausen et al., USDAB 1429, 4-17, 1927.  
King, U. S. Golf Assoc. Green Sec. B. 7, 107-108, 1927.
- iKing, U.S.D.A. YB 1927, 404-405, 1928.
- King, Allen and Hallock, J. Ec. Ent. 20, 336, 1927.
- Smith, N. J. Dept. Agr. R. 12, 96, 1927.
- Bur. Farm 4, 2 (Wyo. Farm. J. Sec. Oct. 1928, p. 22) 1929.
- Centeter unicolor**  
nAldrich, P. U. S. N. M. 74; 8, 7, 1928.
- Centipedes**  
iBailey, N. Y. St. Mus. B. 276, 1928, 50p.  
Gray, Ark. B. 203, 35-37, 1926.
- iHungerford, Kans. St. Bd. Agr. Bien. R. 24, 92-93, 1924.
- Centriculus flavus**  
nGoding, J. N. Y. Ent. Soc. 37, 171, 1929.
- Centrinaspis argentis, bractoides**  
nBlatchley, J. N. Y. Ent. Soc. 33, 102, 1925; 36, 253, 1928.

- Centrodera blaisdelli**  
nVan Dyke, Pan-Pacific Ent. 3, 102, 1927
- Centrodera decolorata**  
Peirson, Me. For. Serv. B. 5, 47, 1927.
- Centrodera pilosa, spp.**  
nVan Dyke, Pan-Pac. Ent. 3, 101-103, '27.
- Centropitulum album**  
nMcDunnough, Can. Ent. 58, 189-190, '26.
- Centropitulum caliginosum**  
nMcDunnough, Can. Ent. 57, 175-176, '25.
- Centropitulum conturbatum**  
iMcDunnough, Can. Ent. 61, 171-173, '29.
- Centropitulum semirufa**  
nMcDunnough, Can. Ent. 58, 189, 1926.
- Centropitulum walshi**  
inMcDunnough, Can. Ent. 61, 173-174, '29.
- Centrotinae—So. America, Antilles**  
iGoding, J. N. Y. Ent. Soc. 35, 391-409, 1927.
- Centruchoides felinus**  
niHaviland-Brindley, Zoologica N. Y. 6, 257, 1925.
- Centruroides margaritatus**  
Baerg, Am. Ent. Soc. Amer. 18, 472, '25.
- Centruroides sculpturatus**  
nbEwing, P. U. S. N. M. 73; 9, 20-21, '28.
- Centruroides vittatus**  
Ewing, Am. J. Pharm. 100, 534, 1928.  
Ewing, Amer. J. Trop. Med. 8, 39-40, 1928.  
iEwing, P. U. S. N. M. 73; 9, 19-20, 1928.  
Ewing, U. S. Naval Med. B. 26, 697, 1928.
- Cepegillettea betulaefoliae, myricae**  
bniGranovsky, Proc. Ent. Soc. Wash. 30, 114-119, 1928.
- Cephalobus elongatus**  
Plant, J. Econ. Ent. 22, 983, 1929.
- Cephalomyia (Oestrus) ovis, see Oestrus ovis**
- Cephaloon (Typitium) pacificum**  
nVan Dyke, Brklyn. Ent. Soc. B. 23: 262, 1928.
- Cephaloplectus flavus, mus, pusillus, trilobitoides; nMann, J. Wash. Acad. Sci. 16, 452-453, 1926.**
- Cephalothrips elegans**  
nMoulton, Bklyn. Ent. Soc. B. 24: 236-237, 1929.
- Cephalothrips merrill**  
nWatson, Fla. Ent. 9, 53-54, 1926.
- Cephenomyia sp.**  
Fitch, Cornell Vet. 18: 4, 353-357, 1928.  
Townsend, J. N. Y. Ent. Soc. 35, 245-252, 1927.  
Walker, Science 69, 646-647, 1929.  
Mont. Wild Life, 2; 15, 9, 1929.
- Cephenomyia sp.—Swiftiness of flight**  
Townsend, Sci. Monthly 22, 309-311, 1926.
- Cephenomyia trompe**  
Hadwen, J. Parasitol. 13, 63-65, 1926.  
Johnson, Psyche 36, 139, 1929.
- Cephus cinctus (Wheat stem sawfly)\***  
il-hAinslie, U. S. D. A. Tech. B. 157, 1929, 23 p.  
Cooley, Mont. B. 170, 29, 1925.  
Essig, Insects of Western No. Amer. 1926, 774-775.  
Fernald, Applied Ent. ed. 2, 345, 1926.  
King, Sci. Agr. 9, 377-380, 1929.  
IMitchener, Sci. Agr. 8, 751-756, 1928.  
Mitchener & Criddle, Ont. Ent. Soc. R. 59, 23, 1929.  
Motherwell, Can. Min. Agr. R. f. 1929, 115.  
iWebster, No. Dak. C. 25, 9-13, 1925.
- Cephus cinctus—Trap crops**  
Seamans, Ont. Ent. Soc. R. 59, 59-64, 1929.
- Cephus pygmaeus (Wheat saw-fly borer)**  
biRies, J. Agr. Res. 32, 277-295, 1926.
- Cerambycidae**  
Champlain, Kirk & Knull, Ent. News 36, 139-142, 1925.  
nChamplain & Knull, Ent. News 37, 205-207, 1926.  
Cloudmar, Me. Nat. 5, 23-35, 1925.  
Fisher, Philip. J. Sci. 28, 205-278, 1925.  
iHardy, B. C. Provin. Mus. R. f. 1925, C24-C33, 1926.  
Hardy, B. C. Provin. Mus. R. f. 1926, C34-C37, 1927.  
Hardy & Preece, Pan. Pac. Ent. 4: 2; 61-67, 1927.  
iKeen, Cal. Dept. Nat. Resources B. 7, 67-68, 1928.  
Kirk & Knull, Can. Ent. 58, 21-26, 1926.  
Kirk & Knull, Can. Ent. 58, 39-46, 1926.  
Mundinger, N. Y. St. Coll. For. Tech. Pub. 17, 316-320.

- Thorington, Ent. News 38, 178-9, 1927.
- Cerambycobius glabrivertex*  
nGirault, Ins. Insc. Mens. 14, 66, 1926.
- Ceramica picta* (Zebra caterpillar)\*  
iBrittain, N. S. Dept. Nat. Resource B. 12, 68, 1927.  
Caesar, Ont. Dept. Agr. B. 325, 37-38, 1927.  
Lieber, Ind. Dept. Conserv. R. 6, 44, 1925.
- Ceramidia viridis*  
Morse, Psyche 33, 53, 1926.
- Ceramioides*—Nesting habit  
Bequaert, Psyche 36, 79, 1929.
- Ceramius fonscolombei*  
Bequaert, Psyche 36, 79, 1929.
- Cerapoda oblita*  
Barnes & Benjamin, Brklyn. Ent. Soc. B. 20, 95, 1925.
- Cerastis lobato*  
Barnes & Benjamin, Proc. Ent. Soc. Wash. 27, 124-125, 1925.
- Cerataphis lataniae*  
Severin, So. Dak. Ent. R. 15, 15, 1924.
- Ceratia* (*Triaplatys*) *dohertyi*, *foveata*  
nBowditch, Psyche 32, 247-248, 1925.
- Ceratina calcarata*  
Rau, St. Louis Acad. Sci. Tr. 25, 184, '27.
- Ceratina dupla*  
McMurray, Ent. News 37, 110, 1926.
- Ceratina reducta*  
nCockerell, Psyche 35, 175, 1928.
- Ceratitis capitata* (Mediterranean fruit fly)\*  
Agee, Penn. Farmer 100, 1336, 1929.  
Armstrong, Nat. Nurseryman 36; 12, 10, 1929.  
Barre, S. C. R. 42, 58, 1929.  
Bartlett, Fla. Clearing House News, 1; 22, 10, 1929.  
Blattner, Bell Telephone Quart. 8: 4, 328-333, 1929.  
Booth, Cal. Cit. 15, 142-143, 1929.  
Bottel, Calif. Dept. Agr. Mo. B. 18: 7; 406-408, 1929.  
Brock, Cal. Dept. Agr. Mo. B. 18, 397-399, 1929.  
Burton, Fla. Grow. 37: 8; 5, 1929.  
Call, Calif. Dept. Agr. Mo. B. 18: 7; 403-405, 1929.  
C. L. L., Flor. Exch. 70; 16, 48A, 1929.  
C. L. L., Flor. Exch. 72; 9, 15, 33, 41; 47, 1929.  
Cameron, Cal. Cit. 10, 292, 1925.  
Cerde, Seald-Sweet Chronicle 5; 6, 5, 1929.  
Chandler, Citrus Leaves, 9: 7; 8, 1929.  
iChandler & Redlands, Citrus Leaves, 9; 6, 1-4, 1929.  
Cobb, So. Rur. 36: 4; 3, 1929.  
Combs, Purdue Agr. 24, Nov. 1929, 32, 39.  
iCooper, C. Gentl. 94:8, 12, 89, 1929.  
Cooper, Ky. St. Hort. Soc. Tr. f. 1929, 56-61.  
Darrow, St. Nicholas 56, 822-823, 1929.  
Davis, Current Hist. 39, 477, 1929.  
Davis, Hoosier Hort. 11, 102-103, 1929.  
Davis, Hoosier Hort. 11, 187-191, 1929.  
Dean, Better Fruit, 23; 12, 9-10, 1929.  
Duke, Cit. Indus. 10; 6, 3-4, 1929.  
nsFerris, Science, 70: 451-2, 1929.  
Fleury, Calif. Dept. Agr. Mo. B. 18: 7, 386-389, 1929.  
iGreene, J. Ag. Res. 38, 492-493, 1929.  
Hardison, Calif. Citrograph, 14, 418, 1929.  
Harned, et al., Miss. St. Plt. Bd. Quar. B. 9, 39-42, 1929.  
iHarrigan, Calif. Dept. Agr. Mo. B. 18, 409-412, 1929.  
iHastings, Amer. Agr. 124; 1, 7, 13, 1929.  
Haylord, Amer. Fruit Grow. Mag. 49; 10, 12, 1929.  
Hecke, Calif. Grape Grow. 8; 2, 10, '27.  
Hecke, Cal. Grow. 1; 1, 26-27, 1929.  
iHecke, Calif. Grow. 1; 3, 6, 1929.  
iHecke, Cal. Cult. 72, 556, 563, 1929.  
iHough, Sci. Amer. 141, 124, 1929.  
iHubbard, R. N. Y. 88, 885-886, 1929.  
Hume, Cal. Citrog. 15, 67, 69, 1929.  
Hume, Cit. Leaves, 9; 11, 3-8, 1929.  
Hume, Citrus Industry 10; 9, 5-7, 1929.  
Hume, Fla. Month. B. 14; 2, 1929. 42p.  
Hyde, Ariz. Cattle. & Farm. 12; 51, 8, 1929.  
Hyde, Cal. Cit. 14: 464-465, 1929.  
Hyde, Cal. Cult. 73, 486, 1929.  
Hyde, Cit. Indus. 10; 9, 8-11, 1929.  
Jacobsen, Cal. Dept. Agr. Mo. B. 17; 665, 1928.  
Kellogg et al., Fla. Clearing House News 1: 21, 2-3, 1929.

*Ceratitis capitata* *Cont'd*

- Kellogg, Science, 70, 146-147, 1929.  
 Kellogg, et al., Valley Farm. 2: 21; 3, 42, 1929.  
 Kellogg, et al., West. Fruit Jobber, 16, 4, 21-24, 1929.  
 Kisliuk, J. Wash. Acad. Sci. 18, 45, 1928; 19, 44-45, 1929.  
 Knight, Amer. Fruit Grow. 49; 12, 19, 1929.  
 Knight, Fla. Grow. 37; 10, 14, 1929.  
 Knight, Seald-Sweet Chronicle, 5; 8, 1-2, 1929.  
 Leach, Fla. Farmer, 32; 2, 8-9, 1929.  
 iLilly, Wis. Country Mag. 23; 3, 8 & 20, 1929.  
 Linz, Flor. Exch. 72; 9, 33 & 41, 1929.  
 iMcKay, Nat. Farm Jour. 53; 6, 16, 1929.  
 Mackie, Cal. Citrog. 14; 12; 527, 1929.  
 Mackie, Calif. Cult. 73, 222, 1929.  
 iMackie, Calif. Dept. Agr. Mo. B. 18; 7; 380-385, 1929.  
 Mackie, Cal. Cult. 72, 528, 1929.  
 Mackie, So. Rur. 36, 8, 3, 10, 1929.  
 Marlatt, Fla. Grow. 37; 10, 24, 1929.  
 Marlatt, Nat. Republic, 17; 7, 5, 1929.  
 Marlatt, News f. Nurserym. 6; 4, 1, 1929.  
 Marlatt, South. Flor. 28; 6, 7, 42, 1929.  
 Marlatt, U. S. D. A. Ent. R. f. 1929, 13-16.  
 Marlatt, U. S. Agr. Dept. Hearings. Com. on Approp. 657-668, 1931.  
 iMarlatt, USDA, PQCA, SRA 99, 101-108, 1929.  
 Miller, Better Fruit, 24; 3, 15, 1929.  
 Marshall, Fla. Frower, 37; 12, 28, 1929.  
 Mayo, Fla. Rev. 4; 7, 9, 1929.  
 Mercer, Cal. Cit. 14: 474, 1929.  
 Morgan, Kellogg, et al., Flor. Exch. 71; 13, 11, 1929.  
 Morris, Manufg. Record, 96; 11, 68, 1929.  
 Newell, Citrus Industry, 10; 10, 11, 1929.  
 Newell, Fla. Grow. 37; 987, 13, 1929.  
 Newell, Fla. St. Pl. Bd. Mo. B. 13, 122-124, 1929.  
 O'Neill, Atlanta & West Railroad Co. Agr. Dept. B. 1929, 3, 21-24.  
 Otanes, Philippine Agr. Rev. 18, 402, 1925.  
 Pope, Hawaii B. 51, 1, 1925.  
 iQuayle, Cal. C. 315, 1929, 18 p.  
 Quayle, Calif. Citrog. 15, 79, 1929.  
 iQuayle, Calif. Dept. Agr. Mo. B. 18; 7; 390-392, 1929.  
 Quayle, Citrus Leaves, 9; 8, 1, 1929.  
 Quayle, Citrus Leaves 9; 8, 6, 1929.  
 iRead, Blue Anchor 6; 7, 8-9, 21, 23, 25, 1929.  
 Reed, Amer. Fruit Grow. Mag. 49; 10, 9, 1929.  
 Reed, Amer. Nurserym. 50, 202, 1929.  
 Richards, Amer. Fr. Grow. Mag. 49; 6, June, 1929.  
 Rolfs, Fla. Ent. 13, 25-40, 1929.  
 Ryan, Calif. Citrog. 14, 418, 527, 1929.  
 Ryan, Cal. Cult. 72, 727, 1929.  
 Ryan, Calif. Dept. Agr. Mo. B. 18; 7; 400-402, 1929.  
 Ryan, Valley Farm. 2: 23, 22, 1929.  
 Smith, Cal. Cult. 73, 20, 1929.  
 Sproul, Missouri Rur. 71; 7; 35, 1929.  
 iSpurlock, Cal. Countrym. 16; 1, 6-7, '29.  
 Thompson, et al., Citrus Ind. 10; 11, 6-7, 1929.  
 Thompson, Ohio Farm. 164, 531, 1929.  
 Thone, Lit. Digest, 102; 4, 18-19, 1929.  
 iTodd, Cal. Agr. B. 16, 344-350, 1927.  
 iUrbahn, Blue Anchor 6; 6, 6-7, 23, 1929.  
 iUrbahn, Cal. Dept. Agr. Mo. B. 18, 418-419, 1929.  
 Villard, Nation 129, 244-245, S. 4, 1929.  
 iWalker, Fla. Grow. 37; 5, 5-6, 1929.  
 Walker, Fla. Grow. 37; 7, 9, 1929.  
 Walker, Fla. Grow. 37; 8, 18, 1929.  
 iWalker, Story of Med. fruit fly, Tampa, Fla., Grow. 1929, 39 p. map.  
 Wallace, The Farm. 47, 1250, 1929.  
 Warner, Fla. Month B. 12, 210, 1928.  
 Warner, Fla. St. Hort. Soc. Proc. 41, 120, 1928.  
 iWatson, Fla. B. 183, 397-398, 1926.  
 iWatson, Better Fruit 24; 4, 7, 1929.  
 iWatson, Citrus Indus. 10; 5, 5, 21, 1929.  
 Watson, Cit. Ind. 10; 7; 9, 1929.  
 Watson, Fla. Dept. Agr. Quar. B. 39; 3; 47-48, 1929.  
 Waycup, Citrus Indus. 10; 5, 8, 9, 21, 33, 1929.  
 Weldon, Pac. Rur. Press, 118, 212, 1929.

- West. Cotton J. & Farm Rev. 8; 4, 8, 1929.
- Wicker, Cur. Hist. 30, 1089-95, S. 1929.
- iWillard, Blue Anchor 4: 12, 4-6, 1927.
- bWillard & Bissell, J. Agr. Res. 33: 1, 9-15, 1926.
- Wilson, Nature M. 14, 354-6, D. 1929.
- iWoglum, Cal. Citrog. 14, 306, 311-312, 330, 453, 464, 1929.
- Woglum, Cal. Fruit Grow. Ex. B. 6, 33-48, 1929.
- Wood, Cal. Cult. 72, 549, 586, 1929.
- Yates, Tenn. Farm. 23; 2, 2, 8, 1929.
- Yoemans, Fruit Trade J. 81: 16, 4, 1929.
- Young, Calif. Dept. Agr. Mo. B. 18: 7; 379, 1929.
- USDA FHB SRA 82, 18-20, 1925.
- USDA FHB SRA 83, 43-45, 1925.
- USDA FHB SRA 85, 101-102, 1925.
- USDA PQCA SRA 99, 50-53, 1929.
- Ceratitis capitata—Appropriations**
- C. L. L., Flor. Exch. 71; 18, 37, 1929.
- Knight, News f. Nurseryman. 6; 4, 10, 1929.
- Reed, Amer. Fruit Grow. Mag. 49; 10, 9, 1929.
- Cal. Cit. 14: 12; 510, 1929.
- Cit. Indus. 10: 7, 10, 1929.
- Citrus Industry, 10; 10, 12-13, 1929.
- Fr. Trade J. & R. 81; 22, 9, 1929.
- Lit. Digest 101, 18-19, May 25, 1929.
- Seald Sweet Chronical, 5; 7, 1, 1929.
- Ceratitis capitata—Fla.**
- Campbell, Food Industries, 1, 428, 1929.
- Cooper, Ky. St. Hort. Soc. Tr. f. 1929, 56-68.
- Davis, Cur. Hist. 30, 477, 1929, J1.
- Linz, Flor. Exch. 70: 17, 45, 1929.
- Flor. Exch. 71; 1, 35, 1929.
- R of R's 80, 43, S. 1929.
- Newell, Fla. St. Pt. Bd. Mo. B. 13, 121-122, 1929.
- Ceratitis capitata on grapes**
- Baker, Fla. Grow. 37; 987, 13, 1929.
- U. S. D. A. Off. Rec. 7: 1, 1, 3, 1928.
- Ceratitis capitata—Hawaii**
- Dwight, Hawaiian For. 26: 113-116, J1, 1929.
- Ceratitis capitata—Heat sterilization**
- Marlatt, Citrus Ind. 10: 11, 10, 1929.
- Ceratitis capitata—Hosts**
- McLean, Calif. Dept. Agr. Mo. B. 18: 7; 413-417, 1929.
- Watson, Fla. Dept. Agr. Quar. B. 39: 3; 184-186, 1926.
- Ceratitis capitata—Losses from**
- iWoglum, Cal. Fruit Grow. Ex. B. 6, 33-48, 1929.
- Ceratitis capitata—Mexico**
- Dampf, Internat. Cong. Ent. 4, Tr. 2, 97-99, 1929.
- Ceratitis capitata—Overwinters on honeydew**
- Flebut, Blue Anchor, 6: 11, 13, 1929.
- Womack, Blue Anchor 6: 11, 13, 1929.
- Ceratitis capitata—Poisons**
- Ward, Flower Grower 37: 10, 28, 1929.
- Ceratitis capitata—Quarantine**
- C. L. L., Flor. Exch. 71; 5, 20, 1929.
- Chandler, Citrus Leaves, 9; 6, 1, 1929.
- Glover, Citrus Leaves 9: 6, 21-22, 1929.
- Hayford, Amer. Fruit Grow. Mag. 49; 10, 12, 1929.
- Hecke, Cal. Cult. 73, 304-305, 1929.
- Hecke, Cal. Dept. Agr. Mo. B. 18, 300-303, 1929.
- iHernandez, Philippine Agr. R. 18; 432-434, 1925.
- Hyde, Amer. Prod. Grow. 4; 7, 5, 1929.
- Hyde, Canning Trade 51; 44, 18, 1929.
- Hyde, Cit. Indus. 10: 9, 8-11, 1929.
- Hyde, Farm & Live Stock Rec. 35: 5, 8, 1929.
- Hyde, Fla. St. Pt. Bd. Mo. B. 13, 151-163, 198-213, 1929; B. 14, 62-64, 163-166, 1929.
- Jacobssen, Cal. Agr. B. 14, 150, 1926.
- Leonard, J. Ec. Ent. 18, 257-265, 1925.
- Marlatt, USDA FHB SRA 90, 16-17, '27.
- Marlatt, USDA FHB SRA 91, 58-60, '27.
- Marlatt, Ariz. Cattleman & Farm. 12; 38, 3, 1929.
- Marlatt, Nurseryman 1: 4, 14, 1929.
- Marlatt, South. Flor. 28; 9, 38, 1929.
- Marlatt, Valley Farm. 2; 23, 21, 1929.
- Marshall, Fla. Grow. 37; 12, 28, 1929.
- Nafziger, Mich. Farm. 172: 831, 1929.
- Regar, USDA FHB SRA 90, 49-50, 1927.
- Scott, Citrus Indus. 10; 5, 6, 28, 29, 1929.
- Watson, Fla. Dept. Agr. Quar. B. 39; 3; 187-189, 1929.
- Wolff, Citrus Leaves 9; 6, 23, 1929.



*Ceratitis capitata* Cont'd

- Youngberg, Philip, Agr. Rev. 22, 277-279, 1929.
- Zschokke, Cal. Cit. 12, 347, 1929.
- Amer. Prod. Grow. 4; 12, 8, 1929.
- Fla. St. Plt. Bd. Mo. B. 13, 126-130, 141-142, 144-151, 171-179, 184-198, 1929.
- Fla. St. Plt. Bd. Mo. B. 13: 12-14; 1, 1-27, 1929.
- Fla. St. Plt. Bd. Mo. B. 14: 46-61, 62-80, 139-160, 1929.
- USDA FHB SRA 82, 18-20, 1925.
- USDA FHB SRA 90, 17-18, 1927.
- USDA FHB SRA 93, 142-144, 1927.
- USDA PQCA NQ 68, 1929, 8 p.
- iUSDA PQCA NQ 68 rev. S. 1929, 11 p.
- USDA PQCA [Circulars] 251 and 252, 1929.
- USDA PQCA SRA 99, 77-117, 1929.
- Ceratitis capitata*—Refrigeration inadequate
- Marlatt, Cit. Indus. 10; 6, 5, 25, 1929.
- Ceratitis capitata*—War against
- USDA PQCA Pam. 5 p., May 20, 1929.
- Ceratocapsus insperatus*
- nBlatchley, J. N. Y. Ent. Soc. 36, 12-13, 1928.
- Ceratocapsus* spp.
- nKnight, Bklyn. Ent. Soc. 20, 46, 1925.
- nKnight, Ohio J. Sci. 27, 143-154, 1927.
- Ceratocombus* spp.—key
- McAtee & Malloch, P. U. S. N. M. 67, Art. 13, 5-12, 1926.
- Ceratogastra trifasciata*
- nCushman, PUSNM 72; 13, 21-22, 1928.
- Ceratoma trifurcata*
- Barre, S. C. Rept. 41, 51, 1928.
- iEddy & Clarke, S. C. B. 258, 25-27, 1929.
- Ceratomegilla fuscilabris*
- Baldur, Ent. News, 40, 261, 1929.
- Fluke, Wis. Res. B. 93, 10-11, 1929.
- Ceratomia catalpae* (*Catalpa spinx*)\*
- Lieber, Ind. Dept. Conserv. R. 6, 39, 1925.
- Ceratonyssus ceratognathus*
- Miller, Ohio B. 386, 131, 1925.
- Ceratophylli*
- Williams, U. S. Pub. Health R. 44; 9, 455, 1929.
- Ceratophyllus acutus*
- Hermes, J. Ec. Ent. 22, 51, 1929.

*Ceratophyllus anisus*

- Hertig & Huang, Am. J. Hyg. 10, 522, '29.
- Ceratophyllus bertholfi*
- nFox, Trans. Amer. Ent. Soc. 53, 211-212, 1927.
- Ceratophyllus citelli*
- Stewart, Can. Ent. 60, 150-151, 1928.
- Ceratophyllus fasciatus* (Rat flea)
- Beach & Freeborn, Cal. Ext. C. 8, 64, 1929.
- iFelt, N. Y. St. Mus. B. 274, 34-35, 1928.
- Williams, U. S. Pub. Health R. 44, 456, 1929.
- Ceratophyllus francisi*
- nFox, Trans. Amer. Ent. Soc. 53, 210-211, 1927.
- Ceratophyllus gallinae* (European hen flea)
- iBrittain, N. S. Dept. Nat. Resource B. 12, 115, 1927.
- Britton, J. Ec. Ent. 21, 437, 1928.
- Garman, Conn. B. 294, 279-280, 1928.
- Herrick, N. Y. Cornell Ext. B. 115, 9, 1925.
- Stewart, J. Ec. Ent. 20, 132-134, 1927.
- Ceratophyllus gibsoni*
- iPettit, Mich. Ent. R. 126, 18, 1926.
- iPettit, Mich. St. Bd. Agr. R. 65, 279, 1926.
- Ceratophyllus nepos*
- nFox, Ent. News. 40, 218, 1929.
- Ceratophyllus peromysci*
- niStewart, Can. Ent. 60, 148-150, 1928.
- Ceratophyllus silantievi*
- bTeh, Chun & Pollitzer, Amer. J. Hyg. 5, 196-200, 1925.
- Ceratopogon culicoidithorax*
- niHoffman, Proc. Ent. Soc. Wash. 28, 156-158, 1926.
- Ceratopogon* sp (Punkies)
- iMacnamara, Nat. Mag. 12, 49-50, 1928.
- Ceratopogoninae*
- biHoffman, Proc. Ent. Soc. Wash. 28, 156-159, 1926.
- Painter, United Fruit Co. Med. Dept. R. 15, 245-262, 1926.
- Ceratopola sodalis*
- nGoding, Bklyn. Ent. Soc. B. 23, 140, '28.
- Cerceris architis*
- Abbott, Ent. News 39, 205-206, 1928.

**Cerceris bicornuta (Bill-bug huntress)**

Rau, St. Louis Acad. Sci. Tr. 25, 337-341, 1928.

**Cerceris crawfordi**

nBrimley, Elisha Mitchell Sci. Soc. J. 43, 199-200, 1928.

**Cerceris maidis**

Cartwright, S. C. B. 257, 31, 1929.

**Cerceris natalenus**

nBrimley, Ent. News 38, 238-239, 1927.

**Cerceris raii**

Rau, St. Louis Acad. Sci. Tr. 25, 325-337, 1928.

**Cerceris shermani**

nBrimley, Elisha Mitchell Sci. Soc. J. 43, 200-201, 1928.

**Cerceris zobeide**

nBrimley, Ent. News 60, 194, 1929.

**Cerceris zosma**

nBrimley, Ent. News 60, 195, 1929.

**Cercopidae**

Ball, Ent. News 39, 47-49, 1928.  
Preble, Nature Mag. 7, 371, 1926.

**Cercopidae—Cuba**

Metcalf, Psyche 32, 95-105, 1925.  
Myers, Psyche 35, 120-124, 1928.

**Cercyothrips, n. gen.—Porto Rico**

Morgan, Fla. Ent. 9; 1, 1-3, 1925.

**Cereal pests**

Davis, Ind. Acad. Sci. Proc. 43, 447-451, 1928.

**Ceresa bubalus (Buffalo treehopper)\***

lhbBaldaf, Ann. Ent. Soc. Amer. 21, 419-435, 1928.

iBrittain, N. S. Dept. Nat. Resource B. 12, 42, 1927.

iChambers, Wis. Hort. 16; 2, 25, 1925.

Champlain, Nature Mag. 11, 250, 1928.

Petch & Armstrong, Quebec Soc.

Protec. Plants R. 17, 76, 1925.

iPettit, Mich. Quar. B. 9, 159, 1927.

bilSorenson, Utah B. 206, 1928, 18p.

Spittall, Proc. Acadian Ent. Soc. 10, 63, 1925.

**Ceresa cuprea**

niFunkhouser, J. N. Y. Ent. Soc. 35, 160-161, 1927.

**Ceresa nigra**

nGoding, Bklyn. Ent. Soc. B. 23, 137-138, 1928.

**Ceresa projecta**

niFunkhouser, J. N. Y. Ent. Soc. 35, 161-162, 1927.

**Cerioides abdominalis, capitis**

niCurran, Kans. Univ. Sci. B. 15, 26-29, 1925.

**Cerioides durani**

niDavidson, Ent. News 37, 40-42, 1926.

**Cerioides kerteszi**

nShannon, Ins. Insc. Mens. 13, 63, 1925.

**Cerioides mejerei**

nShannon, J. Wash. Acad. Sci. 17, 45, '27.

**Cerioides proxima**

niCurran, Kans. Univ. Sci. B. 15, 39-40, 1925.

**Cerioides spp.—Key**

Shannon, Ins. Insc. Mens. 13, 61-62, '25.

**Cerioides victoria**

nCurran, Amer. Mus. Novit. 200, 1-2, '25.

**Ceriodinae**

Shannon, Ins. Insc. Mens. 13, 48, 1925.

Shannon, J. Wash. Acad. Sci. 17, 38-53, 1927.

**Cerobracon n. gen.**

Viereck, Can. Ent. 58, 54, 1926.

**Cerococcus—gen., spp.**

iMorrison & Morrison, P. U. S. N. M. 71; 17, 15-22, 1927.

**Cerodonta femoralis**

iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 258-261.

**Ceromasia—Generic characters**

Seguy, Internat. Corn Borer Invest. Sci. R. 1, 107-108, 1928.

**Ceromasia rufiventris**

nCurran, Amer. Mus. Nov. 258, 7, 1927.

**Ceromasia senilis**

Hergula, Internat. Corn Borer Invest. Sci. R. 2, 121-124, 1929.

**Ceromasia sphenophori**

bEarle, Facts about sugar 22, 1010, 1927.

Holloway, Planter & Sugar Mfg. Co. 241, 1928.

Jarvis, Facts about sugar, 21, 779, 1926.

iJarvis, Sugar 29, 562-565, 1927.

Pemberton, La. Plant & Sugar Mfg. Co.

Ref. Bk. Sugar Ind. of the World 5; 5, 44, 1927.

Vandenberg, Guam R. f, 1926, 18, 1928.

Veitch, Facts about sugar 20, 863, 1925.

- Cerometopum lacunosum*  
n Cresson, Ent. News 36, 165, 1925.
- Ceropales hatoda*  
n Brimley, Blisha Mitchell Sci. Soc. J. 43, 201, 1928.
- Ceroplastes ceriferus*  
Watson, Fla. B. 183, 324-325, 1926.
- Ceroplastes cirripediformis* (Barnacle scale)\*  
Hume, Cult. of Cit. Fruits, 1926, 441-442.  
i Watson, Fla. B. 183, 324, 1926.
- Ceroplastes destructor*  
Rust, Pan-Pac. Ent. 1, 142, 1925.
- Ceroplastes floridensis* (Florida wax scale)\*  
i Hume, Cult. of Cit. Fruits, 1926, 439-441.  
i Watson, Fla. B. 183, 322-324, 1926.
- Ceroplastes rubens* (Red wax scale)  
i Clausen, U.S.D.A. Tech. B. 16, 5, 1927.
- Ceropsilopa adjuncta*  
n Cresson, Ent. News 36, 165, 1925.
- Ceropsilopa bidigitata, decussata, opulens*  
n Cresson, Trans. Amer. Ent. Soc. 51, 251-253, 1925.
- Ceropsilopa staffordi*  
n Cresson, Ent. News 36, 166, 1925.
- Ceropsilopa tenuicornis*  
n Cresson, Trans. Amer. Ent. Soc. 51, 252, 1925.
- Cerotainia laticeps*  
n Bromley, Ann. Ent. Soc. Amer. 22, 279-280, 1929.
- Cerotoma elongata*  
n Braun, Trans. Amer. Ent. Soc. 51, 205, 1925.
- Cerotoma trifurcata* (Bean leaf beetle)\*  
Barre, S. C. R. 42, 62, 1929.  
Hixson, Okla. Farm. Stockm. 42, 577, '29.
- Certonotus humalifer*  
Girault, Insecutor Ins. Mens. 13, 38, '25.
- Cerura nicetia*  
n Schaus, P. U. S. N. M. 73; 19, 74-75, 1928.
- Cerura purusa*  
n Schaus, P. U. S. N. M. 73; 19, 15, 1928.
- Cerura trigonostigma*  
n Dyar, Ins. Insc. Mens. 13, 2, 1925.
- Ceruridae*  
n Schaus, P. U. S. N. M. 73; 19, 1928. 90 p.
- Cesonia cincta*  
n Banks, Harvard Mus. Comp. Zool. B. 69, 58, 1929.
- Ceuthophilus crassifemoris*  
n Hubbell, Fla. Ent. 13, 10-14, 1929.
- Ceuthophilus longipes*  
Bailey, Animal Life of Carlsbad Cavern, 177-178, 1928.
- Ceuthophilus maculatus* (Spotted camel cricket)  
i Gibson & Twinn, Can. Dept. Agr. B. 112, 68-69, 1929.
- Ceuthophilus marshalli*  
n Caudell, Proc. Ent. Soc. Wash. 28, 95-97, 1926.
- Ceuthophilus sp., walkeri*  
i Hubbell, Fla. Ent. 13, 8-21, 1929.
- Ceutorhynchus erysimi*  
Chapman, J. Ec. Ent. 20, 645, 1927.
- Ceutorhynchus puberulus*  
Champlain & Knull, Can. Ent. 57, 115, 1925.
- Chabuata araneosa*  
n Schaus, Wash. Ent. Soc. Proc. 31, 47-48, 1929.
- Chabuata signata*  
n Barnes & Benjamin, Can. Ent. 59, 4-5, 1927.  
Bird, J. N. Y. Ent. Soc. 33, 182, 184, 1925.
- Chadisia celsa, emeteria, ezrana, finiana*  
n Schaus, P. U. S. N. M. 73; 19, 37-40, 1928.
- Chadisia madena*  
n Schaus, P. U. S. N. M. 73; 19, 81, 1928.
- Chadisia paragona, ulrica*  
n Schaus, P. U. S. N. M. 73; 19, 36-38, 1928.
- Chaetocampa, new genus*  
Bottimer, J. Agr. Res. 33, 804, 1926.
- Chaetocampa crotonella*  
n Bottimer, J. Agr. Res. 33, 804-807, 1926.
- Chaetocnema bicolor*  
n Hebard, Trans. Amer. Ent. Soc. 54, 63-64, 1928.
- Chaetocnema confinis* (Sweet-potato flea beetle)\*  
Marcovitch, Tenn. R. 40, 33, 1927.  
Weese, Ill. Biol. Mon. 9; 4, 14, 1924.
- Chaetocnema ectypa* (Desert corn flea beetle)  
Brisley, Trans. Amer. Ent. Soc. 51, 177, 1925.

- Chaetocnema magnipunctata*  
nGentner, Trans. Amer. Ent. Soc. 54, 64, 1928.
- Chaetocnema parvula* (Tobacco flea beetle)\*  
nGentner, Trans. Amer. Ent. Soc. 54, 62-63, 1928.
- Chaetocnema quadricollis*  
Blatchley, Can. Ent. 57, 168, 1925.
- Chaetocraniopsis argenteiceps*  
nAldrich, P.U.S.N.M. 74; 1, 20-21, 1928.
- Chaetodacus cucurbitae* (Hawaiian melon fly)  
Essig, Insects of Western No. Amer. 1926, 602.  
iGreene, J. Agr. Res. 38, 492, 1929.  
Jacobsen, Cal. Agr. B. 14, 150, 1926.  
Jacobsen, Cal. Dept. Agr. Mo. B. 17; 665, 1928.  
iQuayle, Cal. C. 315, 12, 1929.  
Quayle, Cit. Leaves, 9; 8, 2, 1929.  
Regar, USDA FHB SRA. 90, 49-50, 1927.
- Chaetona addenda, ordinaria*  
Wesnt, J. N. Y. Ent. Soc. 33, 129, 1925.
- Chaetonerius comperei*  
nCresson, Trans. Amer. Ent. Soc. 52, 259, 1926.
- Chaetoprosopa auriceps*  
nAldrich, Ann. Ent. Soc. Amer. 18, 464, 1925.
- Chaetopsis brooksi*  
nJohnson, Psyche 32, 301-302, 1925.
- Chaetopsis fluvifrons*  
Plank, Ann. Ent. Soc. Amer. 22, 638, 1929.
- Chaetoravinia quadrisetosa*  
Greene, P. U. S. N. M. 66; 29, 14, 1925.
- Chaetospania dichroma*  
nHebard, Proc. Acad. Nat. Sci. Phila. 79; 34, 1928.
- Chaetospania stoneri*  
niCaudell, Iowa Univ. Stud. 11; 3, 5-7, 1927.
- \*Chaff scale, *see* *Parlatoria pergandei*
- Chagasias fajardoi*—Brazil  
ibRoot, Amer. J. Hyg. 7, 470-480, 1927.
- Chagasias neivae*, *see* *Chagasias fajardoi*
- \*Chain-spotted geometer, *see* *Cingilia catenaria*
- Chaitophoroides middletonii*  
Knowlton, Pan-Pac. Ent. 6; 34-35, '29.
- Chaitophorus negundinis*, *see* *Periphyllus negundinis*
- Chaitophoroides populifoliae*  
Knowlton, Pan-Pac. Ent. 6; 36-37, '29.
- Chaitophorus populella*  
nGillette & Palmer, Ann. Ent. Soc. Amer. 21, 15-17, 1928.
- Chalceopla discalis*  
nBraun, Trans. Amer. Ent. Soc. 51, 223-224, 1925.
- Chalcididae*  
Girault, Ins. Insc. Mens. 13, 91-100, '25.  
Keen, Cal. Dept. Nat. Resources B. 7, 86-87, 1928.  
Kryger, Internat. Cong. Ent. 4, Tr. 2, 1020-1023, 1929.
- Chalcididae parasites*  
biGriswold, Ann. Ent. Soc. Amer. 19, 331-334, 1926.
- Chalcidoidea*  
Baldur, Can. Ent. 58, 161-164, 1926.
- Chalcidoidea larvae*  
biParker & Thompson, Ann. Ent. Soc. Amer. 18, 384-395, 1925.
- Chalcis anselmi, caesar, miltoni, minutissimus, pandani, persplendidipes, shakespearei, unguttifemur*  
nGirault, Ins. Insc. Mens. 14, 139-140, '26.
- Chalcodermus aeneus*, (Cowpea curculio)\*  
Brooks, et al, Fla. B. 204, 522, 1929.  
iWatson, Fla. Dept. Agr. Quar. B. 39; 3, 96-97, 1929.
- Chalcogonatopus areolatus, raptor*  
niFenton, P. U. S. N. M. 72; 8, 7-8, 1928.
- Chalcoides fulvicornis*  
Chittenden, J. N. Y. Ent. Soc. 33, 120, 1925.
- Chalcomyia gen.*  
Curran, Ent. News 37, 299, 1926.  
Shannon, Boston Soc. Nat. Hist. Occ. papers 5, 151-153, 1925.
- Chalcomyia anomala*  
nShannon, Boston, Soc. Nat. Hist. Occ. Papers 5, 153, 1925.
- Chalcomyia atra*  
niCurran, Kans. Univ. Sci. B. 15, 122-123, 1925.
- Chalcomyia beckeri*  
nShannon, Proc. Ent. Soc. Wash. 28, 113-114, 1926.

**Chalcomyia depressa**

nShannon, Boston Soc. Nat. Hist. Occ. Papers 5, 153, 1925.

**Chalcomyia sp.**

Shannon, Boston, Soc. Nat. Hist. Occ. Papers 5, 151-153, 1925.

**Chalcomyia spp.—Key**

Shannon, Proc. Ent. Soc. Wash. 28, 112-113, 1926.

**Chalcophora angulicollis**

iKeen, Cal. Dept. Nat. Resources B. 7, 61-62, 1928.

**Chalcophora liberta**

iPeirson, Me. For. Serv. B. 5, 106, 1927.

**Chalcophora spp.—Key**

Fisher, P. U. S. N. M. 65; 9, 75, 1925.

**Chalcophora virginensis**

iPeirson, Me. For. Serv. B. 5, 106, 1927.

**Chalepus ater**

Brisley, Trans. Amer. Ent. Soc. 51, 180-181, 1925.

Van Dyke, Pan-Pac. Ent. 1, 174, 1925.

**Chalepus dorsalis (Locust leaf miner)\***

Britton & Zappe, Conn. B. 292, 143, 1927.

iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 197-199.

Peirson, Me. For. Serv. B. 5, 80, 1927.

**Chalepus rubra**

Peirson, Me. For. Serv. B. 5, 34, 1927.

**Chalepus walshi**

Frost, Bklyn. Ent. Soc. B. 23, 136, 1928.

**Chalia pizote**

nSchaus, Proc. Ent. Soc. Wash. 29, 185, 1927.

**Chalodeta speusippa**

nSchaus, Proc. Ent. Soc. Wash. 30, 48, '28.

**Chalybion caeruleum**

Rau, St. Louis Acad. Sci. Tr. 25, 201, 1927.

iRau, Ann. Ent. Soc. Amer. 21, 25-35, 1928.

**\*Changa, see Scapteriscus vicinus****Chaoborinae**

Matheson, Can. Ent. 57, 159-160, 1925.

**Chaoborus crystallina**

Matheson, Can. Ent. 57, 159, 1925.

**Chaoborus (Sayomyia) lacustris**

nFreeborn, Pan-Pac. Ent. 2, 161-163, '26.  
Herns, J. Ec. Ent. 22, 55, 1929.

**Chaoborus punctipennis**

Matheson, Can. Ent. 57, 159-160, 1925.

**Chapinia—gen., robusta**

nEwing, J. Wash. Acad. Sci. 17, 88-89, 1927.

**Chapoda peckhami**

iBanks, Harvard Mus. Comp. Zool. B. 69, 70-71, 1929.

**Chara fragilis & mosquito larvae**

Matheson & Hinman, J. N. Y. Ent. Soc. 37, 78-79, 1929.

**Charopsinae**

Viereck, Trans. Roy. Soc. Can. (ser. 3) 19, sec. 5, 259-273, 1926.

Viereck, Roy. Soc. Can. Pr. & Tr. ser. 3, 20, sec. 5, 173-186, 1926.

**Charthasis championi**

nHarris, Ent. Amer. 9, 76, 1928.

**Chauliodes pectinicornis**

Champlain & Kirk, Ent. News 37, 288, 1926.

**Chauliognathus pennsylvanicus (Pennsylvania soldier beetle)**

Liever, Ind. Dept. Conserv. R. 8, 52-53, 1926.

**\*Cheese skipper, see Piophilidae casei****Cheiloneurus albivoiductus**

nGirault, Ins. Insc. Mens. 13, 92, 1925.

**Cheiloneurus inimicus**

niCompere, Cal. Univ. Tech. B. Ent. 3; 3, 297-302, 1925.

Smith & Compere, Cal. Univ. Pub. Ent. 4, 271, 1928.

**Cheiloneurus lineascapus**

Smith & Compere, Cal. Univ. Pub. Ent. 4, 271-272, 1928.

**Cheiloneurus noxius**

niCompere, Cal. Univ. Tech. B. Ent. 3; 3, 302-303, 1925.

Smith & Compere, Cal. Univ. Pub. Ent. 4, 273-274, 1928.

**Cheiloneurus pulvinariae**

niDozier, Porto Rico Dept. Agr. J. 9, 363, 1925.

**Cheilosis versicolor**

nCurran, Ann. Ent. Soc. Amer. 22, 496, 1929.

**Chelanops consocius**

nChamberlain, Harvard Mus. Comp. Zool. B. 67, 238-239, 1925.

**Chelodamus—n. gen., atopus, mexicolens**

nChamberlain, Harvard Mus. Comp. Zool. B. 67, 236-238, 1925.

- Chelogynus minimus*, propodealis, rugulosus, virginienensis, niFenton, PUSNM 72; 8, 13-15, 1928.
- Chelogynus vivariensis*, xanthothorax nBradley, Proc. Biol. Soc. Wash. 39, 7-8, 1926.
- Chelonella hoppingi*, plesius nViereck, Can. Ent. 57, 71-72, 1925.
- Chelonogastra natalensis* nBruce, Proc. Amer. Acad. Arts & Sci. 61, 245-246, 1926.
- Chelonogastra* sp and *Philomacroploea* Waterson, Proc. Ent. Soc. Wash. 31, 167-168, 1929.
- Chelonus pygmaeus* nViereck, Can. Ent. 57, 72, 1925.
- Chelostomopsis* n. gen. Cockerell, Proc. Cal. Acad. Sci. ser. 4, 14; 11, 205-206, 1925.
- Chelymorpha argus* Brisley, Trans. Amer. Ent. Soc. 51, 182, 1925.
- Chelynia chlorocyanea*, franciscana, holocyanea, leucotricha, nitidula, subglauca nCockerell, Proc. Cal. Acad. Sci. ser. 4, 14; 11, 207-211, 1925.
- Chemicals—Efficiency** Herms, J. Ec. Ent. 22, 53-54, 1929.
- Chemicals—In the apiary** iHutson, N. J. C. 211, 1929.
- Chemicals—Injecting into trees** Gordon, Cal. Countrym. 12; 2, 9, 22, 1925.
- Chermes abietis** (Spruce gall aphid) Bailey, Comm. Agr. Vt. Bien. R. 13, 56, 1926.
- iBritton & Zappe, Conn. B. 292, 166, 1927.
- Cooley, Mont. B. 170, 25, 1925.
- Friend, Proc. Nat'l. Shade Tree Conf. 5, 65-66, 1929.
- Herrick, J. Ec. Ent. 18, 630-632, 1925.
- libHerrick & Tanaka, N. Y. C. B. 454, 1926, 16p.
- iMcDaniel, Mich. Quar. B. 10, 129-131, 1928.
- Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 51-52, 1926.
- Chermes cooleyi** ibEssig, Insects of Western No. Amer. 1926; 227-229.
- Chermes peninsularis** niChamberlin, Cal. Univ. Tech. B. Ent. 3; 4, 330-331, 1925.
- Chermes pinicorticis** (Pine bark aphid) Lieber, Ind. Dept. Conserv. R. 7, 43, 1925.
- Peirson, Me. For. Serv. B. 5, 99, 1927.
- Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 46, 1926.
- Chermes similis** nAnnand Stanford Univ. Pub. Biol. Sci. 61, 108-111, 1928.
- iMcDaniel, Mich. Quar. B. 10, 128-131, 1928.
- Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 51-52, 1926.
- Chermes** sp. Middleton, Garden Club. B. 6, (ser. 4) 19, 1929.
- Gorham, et al, Ont. Ent. Soc. R. 59, 16, 1929.
- Chermes strobilobius** (Woolly larch aphid) Peirson, Me. For. Serv. B. 5, 78-79, 1927.
- Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 47, 1926.
- Chermidae—Pt. III-V** iFerris, Can. Ent. 58, 13-20, 1926.
- iFerris, Can. Ent. 60, 109-117, 1928.
- iFerris, Can. Ent. 60, 240-245, 1928.
- \*Cherry fruit fly, see *Rhagoletis cingulata*
- Cherry fruit sawfly, see *Hoplocampa cookei*
- Cherry fruit worm, see *Grapholitha packardii*
- Cherry insects** Crosby, et al, N. Y. C. B. 498, 55-61, 1929.
- Morrison, N. Y. Geneva R. 47, 48, 1928.
- Peirson, Me. For. Serv. B. 5, 51, 1927.
- \*Cherry leaf beetle, see *Galerucella cavicollis*
- Cherry leaf miner, see *Profenusa collaris*
- \*Cherry maggot, see *Rhagoletis cingulata*
- \*Cherry scale, see *Aspidiotus forbesi*
- Chestnut insects** Brooks, USDA Tech. B. 130, 1929, 23p.
- Peirson, Me. For. Serv. B. 5, 53, 1927.
- Chestnut timber worm**, see *Melittomma sericeum*
- Chestnut weevils**, see *Balaninus proboscideus* and *B. rectus*

**Cheyletidae**

Miller, Ohio B. 386, 96-97, 1925.

\***Chicken body louse**, *see* **Menopon stramineum**

**Chicken flea**, *see* **Pulex avium**

\***Chicken head louse**, *see* **Lipeurus heterographus** (Slender form)

**Chicken Louse, Large**, *see* **Goniocotes gigas**

\***Chicken mite**, *see* **Dermanyssus gallinae**

**Chicken wing louse**, *see* **Lipeurus caponis**

\***Chigger**, *see* **Trombicula irritans**

\***Chigoe**, *see* **Tunga penetrans**

**Chilo fernaldalis**

niDyar & Heinrich, P. U. S. N. M. 71; 19, 40-41, 1928.

**Chilo loftini**

Morrill, J. Ec. Ent. 18, 711, 1925.

VanZwaluwenburg, J. Ec. Ent. 19, 664, 1926.

**Chilocorus bipustulatus**

Merrill, Cal. R. f. 1927-28, 24, 1929.

**Chilocorus bivulnerus** (Twice-stabbed ladybeetle)\*

Cole, Fla. Hort. Assoc. Proc. 38, 154, '25; 39, 157, 1926.

Miller & Thompson, Fla. Ent. 11, 8, 1927.

Pickwell, Nat. Mag. 12, 304, 1928.

Thompson, Fla. Ent. 11, 51, 1928.

Watson, Fla. B. 183, 305-306, 1926.

**Chilocorus kuwanae**

Merrill, Cal. R. 1924-25, 44, 1926.

Smith, Cal. Cit. 9, 344, 1925.

Smith, Cit. Leaves, 5; 8, 3, 1925.

**Chilocorus tristis**

Smith, Cit. Leaves, 5; 8, 3, 1925.

**Chiloneurus noxius**

iSmith & Compere, Cal. Univ. Pubs. in Ent. 4, 273-274, 1928.

**Chilosia bigelowi, consentiens**

nCurran, Can. Ent. 58, 211-212, 1926.

**Chilosia hiawatha**

bJohnson, Psyche, 36, 237-238, 1929.

**Chilosia nigroapicata**

nCurran, Can. Ent. 58, 173-175, 1926.

**Chilosia swannanoa**

nBrimley, Ent. News, 36, 73, 1925.

**Chinaola**—n. gen., quercicola

nBlatchley, Ent. News 39, 87-88, 1928.

\***Chinch bug**, *see* **Blissus leucopterus**

**Chinese ladybeetle**, *see* **Leis** sp.

**Chinese mantis**, *see* **Paratenodera sinensis**

**Chionaspis americana** (Elm scurfy scale)\*

Britton & Zappe, Conn. B. 292, 154, 1927.

Trimble, Pa. Dept. Agr. B. 8; 2, 8, 1925.

Trimble, Pa. Dept. Agr. Gen. B. 480, 8, 1929.

**Chionaspis citri**

iHume, Cult. of Cit. Fruits, 1926, 437.

iWatson, Fla. B. 183, 318-319, 1926.

**Chionaspis euonymi** (Euonymus scale)\*

iBritton & Zappe, Conn. B. 292, 159, 1927.

G: S. H., Rur. N. Y. 84, 738, 1925.

Sanders, Md. B. 298, 187-188, 1928.

iTrimble, Pa. Dept. Agr. B. 8; 2, 8, 1925.

Trimble, Pa. Dept. Agr. B. 480, 8-9, 1929.

**Chionaspis furfura** (Scurfy scale)\*

iBritton & Zappe, Conn. B. 292, 137, 1927.

Gillette & Langford, Colo. Ent. C. 46, 11, 1925.

iQuaintance & Saecker, U. S. F. B. 723, rev. 1929, 15p.

Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 51, 1926.

iTrimble, Pa. Dept. Agr. B. 8; 2, 9, 1925.

Trimble, Pa. Dept. Agr. B. 480, 9, 1929.

**Chionaspis ortholobis** (Cottonwood scale)

iGillette & Langford, Colo. Ent. C. 46, 7-8, 1925.

**Chionaspis salicis-nigrae**

Langford, Colo. Ent. C. 50, 58, 1926.

**Chionaspis pinifoliae** (Pine leaf scale)

iBritton & Zappe, Conn. B. 292, 166-167, 1927.

iGillette & Langford, Colo. Ent. C. 46, 10, 1925.

ide Gryse, Can. Dept. Agr. Ent. Br. Pam. 47, n. s. rev. ed. 23, 1925.

Herrick, J. Ec. Ent. 22, 199-201, 1929.

iKeen, Cal. Dept. Nat. Resources B. 7, 89, 1928.

iMcDaniel, Mich. Ext. B. 76, 8-9, 1929.

Mitchener & Criddle, Ont. Ent. Soc. R. 59, 24, 1929.

Peirson, Me. For. Serv. B. 5, 99, 1927.

Pettit, Mich. St. Bd. Agr. R. 63, 212-213, 1924.

Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 49, 1926.

- iTrimble, Pa. Dept. Agr. B. 8; 2, 9, 1925.  
Trimble, Pa. Dept. Agr. B. 480, 9, 1929.  
Wilson, Tr. Iowa Hort. Soc. 62, 21-23, 1927.
- Chionea waughii—Labrador**  
nCurran, Can. Ent. 57, 24, 1925.
- Chirida guttata (Mottled tortoise beetle)\***  
Brisley, Tr. Amer. Ent. Soc. 51, 181, 1925.  
Watson, Fla. Dept. Agr. Quar. B. 39; 3, 131, 1929.
- Chiriquia mirifica**  
Hebard, Phila. Acad. Nat. Sci. Proc. 76, 155-156, 1925.
- Chiromyia oppidana in U. S.**  
Aldrich, Ent. News 38, 79, 1927.
- Chironomidae**  
Bequaert, United Fruit Co. Med. Dept. R. 13, 193-201, 1925.  
iBeyer, La. St. Bd. Health Quar. B. 16; 1, 27-31, 1925.  
iChandler, Animal Parasites, ed. 3, 473-476, 1925.  
Johannsen, J. N. Y. Ent. Soc. 34, 273-277, 1926.
- Chironomus deflexa, farinalis, imperator**  
nWalley, Can. Ent. 58, 205-207, 1926.  
nWalley, Can. Ent. 58, 64-65, 1926.
- Chironomus ontario**  
nWalley, Can. Ent. 58, 206, 1926.
- Chironomus plumosus**  
iBeyer, La. St. Bd. Health Quar. B. 16; 1, 27-31, 1925.  
iBeyer, Nation's Health 7, 633, 1925.
- Chironomus prasinus**  
Needham, J. Ent. & Zool. Pomona 17, 37, 1925.
- Chironomus quadripunctatus**  
Carpenter, Ent. News 39, 186-189, 1928.
- Chirotenetes sp.**  
iNeedham & Christenson, Utah B. 201, 12, 1927.
- Chirothrips crenulatus**  
niHood, J. N. Y. Ent. Soc. 35, 130-131, '27.
- Chirothrips obesus**  
Watson, Fla. Ent. 9, 58-59, 1926.
- Chirothrips productus**  
niHood, J. N. Y. Ent. Soc. 35, 126-128, '27.
- Chirothrips similis**  
Moulton, Pan-Pac. Ent. 3: 1, 21, 1926.
- Chirothrips simplex**  
niHood, J. N. Y. Ent. Soc. 35, 128-130, '27.
- Chirothrips spp.—Key**  
Watson, Fla. Ent. 9, 59-60, 1926.
- Chloealtis abdominalis**  
Buckell, Proc. Ent. Soc. B. C. 25; 11, 1928.  
Hubbell, Fla. Ent. 9, 43, 1925.
- Chloralictus subgenus**  
Cockerell, Psyche 35, 177-178, 1928.
- Chloridea obsoleta (Corn ear-worm, Boll worm)\***  
Barber, J. Ec. Ent. 18, 548-549, 1925.  
Barre, S. C. R. 39, 39, 1926.  
Barre, S. C. R. 40, 36, 1927.  
Barre, S. C. R. 41, 54-55, 1928.  
Barre, S. C. R. 42; 69, 1929.  
iBishopp, U. S. D. A. B. 1595, 1929, 14p.  
Bottimer, J. Agr. Res. 33, 798, 1926.  
Bradley, La. R. f. 1924, 25-26, 1925.  
Brittain, N. S. Dept. Nat. Res. B. 12, 83-84, 1927.  
iCaesar, Ont. Dept. Agr. B. 325, 40-41, 1927.  
iCaffrey & Worthley, U. S. F. B. 1548, 43, 1927.  
Call, Kans. R. f. 1924-1926, 75-86.  
Cassidy, J. Ec. Ent. 19, 772-777, 1926.  
iCompton, Ill. C. 297, 21-23, 1925.  
Compton, Ill. Hort. Soc. Tr. 59, 308, 1926.  
iCrumb, Proc. U. S. Nat. Mus. 68, Art. 16, 2-4, 1925.  
Curtiss, Iowa R. f. 1927, 33.  
Davis, Ind. Acad. Sci. Proc. 41, 306, 1925.  
Davis, Ind. Farm. Guide, 85, 1156, 1929.  
Drake, Iowa Yrbk. Agr. 28, 131-132, 1928.  
iDrake & Riley, Iowa Hort. Soc. Tr. 61, 216-220, 1926.  
iDrake & Decker, Iowa C. 103, 8-10, 1927.  
iEllis, J. Agr. Res. 30, 790-791, 1925.  
Ernst, Calif. Cult. 69, 106, 1927.  
Felt, N. Y. St. Mus. B. 274, 95, 1928.  
Fernald, Applied Ent. ed. 2, 273-275, 1926.  
Fletcher, J. Ec. Ent. 22: 757-760, 1929.  
Fox, U. S. Bur. Ed. B. 1925: 15, 26, 1925.  
Freeborn & Wymore, J. Ec. Ent. 22, 666-671, 1929.



**Chloridea obsoleta** *Cont'd*

- iGibson & Twinn, Can. Dept. Agr. B. 112, 62, 1929.  
 Gillette, Colo. Ent. C. 47, 13, 1925.  
 Gilliatt, Ont. Ent. Soc. R. 59, 13, 1929.  
 Isely, Ark. Ext. C. 218, 1926. 2 p.  
 Lieber, Ind. Dept. Conserv. R. 7, 49, 1925; R. 9, 51, 1927.  
 iMacLeod, Penn. St. Col. C. 122, 25-26, 1929.  
 McCulloch, The Canner 59; 7, 23, 1924.  
 McHatton, Firor & Keener, Ga. Ext. B. 257, rev., 24-25, 1926.  
 iMarcovitch & Robert, Tenn. B. 133, 1925, 14p.  
 iMarcovitch, Tenn. Ext. C. 12, 1926. 2p.  
 iMohler, Kans. St. Bd. Agr. Quar. R. 48: 191, 216-218. 1929.  
 Moore & Pepper, S. C. Ext. C. 84, 10-11, 1926.  
 Mote, Oreg. C. 65, 26-27, 1926.  
 Pepper, S. C. Clemson Coll. Weekly News Notes 15; 14, 1, 1926.  
 iPhillips, Va. Tech. B. 40, 1929, 24p.  
 Schoene, Va. St. Crop Pest Com., Quar. B. 7: 4, 25, 1926.  
 Scholl, Okla. Ext. News 6; 12, 2, 1925.  
 Sherman, S. C. Clemson Col. Wkly. News Notes 14; 50, 1926.  
 iSnapp, U. S. F. B. 1557, 32-34, 1928.  
 Stiles, Okla. Ext. News 6: 12, 4, 1925.  
 Thomas, Cotton & Cotton Oil News, 30: 35, 8, 1929.  
 Treat, Market Gr. J. 40, 515, 1927.  
 iWatson, Fla. Dept. Agr. Quar. B. 39: 3; 85-87, 111-112, 134-138, 1929.  
**Chloridea virescens** (Tobacco budworm)  
 Moore & Pepper, S. C. Ext. C. 84, 10-11, 1926.  
**Chlorion (Isodontia) auripes**—(Grass carrier wasp)  
 Rau, St. Louis Acad. Sci. Tr. 25, 362-368, 1928.  
**Chlorion (Isodontia) curvipes**  
 Rau, St. Louis Acad. Sci. Tr. 25, 200, 1927.  
**Chlorion harrisi**—Observation on breeding places  
 Engelhardt, Brklyn. Ent. Soc. B. 23: 269-271, 1928.

**Chlorochlamys rubromediaria**

- nCassino & Swett, Lepidopterist 4, 36-37, 1925.  
**Chloropaschia aedesia** 32, *aniana* 31, *epipodia* 30-31, *fiachnalis* 32-33, *hollandalis* 33-34, *venantia* 30, *zenoa* 30; nSchlaus, Annals Carnegie Mus. 16; 1, 1925.  
**Chloropicrin**, *see* Insecticides—Chloropicrin  
**Chloropisca atra**  
 nCurran, Amer. Mus. Nov. 220, 3-4, 1926  
**Chloropisca glabra**  
 iHawley, Utah C. 54, 38-39, 1925.  
**Chlorops kuwanae**  
 nAldrich, U. S. N. M. 66: 18, 2-3; '25.  
**Chlorotettix tethys**  
 Osborn, Porto Rico Dept. Agr. J. 13, 99-100, 1929.  
**Chlorotettix viridus**  
 Osborn, J. Ec. Ent. 19, 104, 1926.  
 Osborn, Ref. Bk. Sugar Indus. of World 4, 48, 1926.  
**Chlosyne**—Key to forms  
 Forbes, Ann. Ent. Soc. Amer. 21, 98-100, 1928.  
**Chocolate moth**, *see* *Ephestia elutella*  
**Choerodes**—Identity  
 Barnes & Benjamin, Pan-Pac. Ent. 4, 10, 1927.  
**Choeroporpa** subgen.  
 Freeborn, Cal. Univ. Tech. B. Ent. 3: 423, 1926.  
**Chokecherry aphid**, *see* *Aphis cerasifoliae*.  
**Chokecherry grain-aphid**, *see* *Rhopalosiphum pseudoavenae*.  
**Chokecherry insects**  
 lbBird, Sci. Agr. 8, 497-499, 1928.  
**Cholomyia longipes**  
 iMutchler & Weiss, N. J. Dept. Agr. C. 87, 10, 1925.  
**Chonaphe armatus**  
 Hannum, Publ. Puget Sound Biol. Sta. 5: 109-123, 1926.  
**Chonocephalus jamaicensis**  
 Brues, Psyche 32, 312, 1925.  
**Choreutis immutabilis**  
 nBraun, Tr. Amer. Ent. Soc. 53, 192-193, 1927.  
**Choreutis multimarginata**  
 nBraun, Tr. Amer. Ent. Soc. 51, 203-204, 1925.

- Choriopetes cuniculi**  
iSchwartz & Shook, USFB 1568, 3-5, '28.
- Choriopetes equi**  
Imes, U. S. F. B. 1493, 12, 1926.
- Choriopetes ovis**  
Stevenson, Ont. Dept. Agr. B. 337, 28, 1928.
- Chorisoneura spp.**  
ni Hebard, Proc. Phila. Acad. Nat. Sci. 78, 223-233, 1926.  
ni Hebard, Amer. Entom. Soc. Tr. 55, 381-384, 1929.
- Chorizagrotis auxiliaris (Army cutworm)\***  
Call, Kans. R. f. 1924-26, 81.  
Cooley, Mont. B. 170, 29, 1925.  
ibCook, J. Ec. Ent. 20, 769-782, 1927.  
Cook, Ecol. Soc. Amer. B. 10: 289, 1929.  
Cook, Ecology, 10, 289, 1929.  
iCrumb, U. S. Dept. Agr. Tech. B. 88, 96-99, 1929.  
Gillette, Colo. R. 38, 24, 1925.  
Langford, Colo. Ent. C. 51, 19-22, 1926.  
Seamans, Quebec Soc. Protec. Pl. R. 20, 9-11, 1928.  
bSeamans, Ont. Ent. Soc. R. 58, 76-85, 1928.  
ilSeamans, Can. Dept. Agr. Pam. 102, 1929, 8p.  
Seamans, Ont. Ent. Soc. R. 59, 30, 1929.  
Snow, J. Ec. Ent. 18, 602-609, 1925.
- Chorthopha viridifasciata**  
Rau, St. Louis Acad. Sci. Tr. 25, 189, 1927.
- Chortophila brassicae, see Phorbia brassicae**
- Christmas beetle, see Anoplognathus boisduvali**
- Chromacris colorata**  
Hebard, Trans. Amer. Ent. Soc. 51, 279-280, 1925.
- Chromaphis juglandicola (Walnut aphid)**  
Essig, Insects of Western No. Amer. 1926, 232.  
Flanders, Pan-Pac. Ent. 2, 158, 1926.  
Kimball, Nat'l Nut News, 3; 9, 54, 1929.  
Knowlton, Fla. Ent. 13, 4, 1929.  
O'Kane, Cal. Dept. Agr. Mo. B. 18; 467-468, 1929.  
Thompson, Pan-Pac. Ent. 5, 122, 1929.
- Chromocryptus mesorufus**  
nCushman, PUSNM 76; 25, 2-3, '29.
- Chrostosoma dhamis, mediana**  
nSchaus, Proc. Ent. Soc. Wash. 30, 55, 1928.
- \*Chrysanthemum aphid, see Macrosiphoniella sanborni**
- \*Chrysanthemum gall midge, see Diarthronomyia hypogaea**
- Chrysanthemum insects**  
Ball, So. Flor. & Nursm. 28: 12, 20, '29.  
Wiggin, Ohio B. 439, 27-30, 1929.
- Chrysanthemum lacebug, see Corythucha marmorata**
- \*Chrysanthemum leaf miner, see Napomyza chrysanthemi**
- Chrysididae**  
Taylor, Proc. Cal. Acad. Sci. 13, 325-332, 1925.
- Chrysis (Tetrachrysis) coeruleus**  
Rau, St. Louis Acad. Sci. Tr. 25, 226, 1927.
- Chrysobothris antillarum, bella**  
nFisher, PUSNM 65; 9, 101, 106, 1925.
- Chrysobothris beniensis**  
nFisher, P. U. S. N. M., 66; 31, 4-6, 1925.
- Chrysobothris burkei**  
nChamberlin, Pan-Pac. Ent. 5, 110-111, 1929.
- Chrysobothris cupritrons**  
nFisher, P. U. S. N. M., 66; 31, 6-8, 1925.
- Chrysobothris femorata (Flat-headed apple tree borer)\***  
Baerg, Ark. Pecan Grow. Assoc. Proc. 3, 22, 1929.  
iCrawford, N. C. Dept. Agr. B. Jan. 1926, 8-9.  
Flint, No. Nutgrowers Assoc. R. 16, 109-110, 1925.  
ilLeiby, N. C. Dept. Agr. B. Feb. 1925, 57-61.  
Nidever, Cal. Cult. 64, 673, 1925.  
Peirson, Me. For. Serv. B. 5, 50-51, '27.  
iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 42, 1926.  
lWoodard, Texas Dept. Agr. B. 81, 178-179, 1925.  
Woodward, et al. Tex. Dept. Agr. B. 95, 148-149, 1929.
- Chrysobothris hispaniolae, insulana, lecontei**  
nFisher, PUSNM 65; 9, 121, 125, 134, '25.

- Chrysobothris mali** (Pacific flat headed borer)  
 bilBurke, USDA Tech. B. 83, 29, 36p.
- Chrysobothris parvofoveata**  
 nFisher, PUSNM 65; 9, 116, 1925.
- Chrysobothris pubescens**  
 Baker, West. Wash. B., n. s. 10-W, 15-16, 1928.
- Chrysobothris rogaguaensis**  
 nFisher, P. U. S. N. M. 66; 31, 2-4, 1925.
- Chrysobothris spp.—in felled logs**  
 Graham, Ecology 6, 406, 1925.
- Chrysobothris spp.—Key**  
 Fisher, P. U. S. N. M. 65; 9, 92, 1925.
- Chrysobothris sylvania**  
 iChamberlin, Amer. For. 33, 143, 1927.
- Chrysobothris verdigripennis**  
 Frost, Bklyn. Ent. Soc. B. 23, 135, 1928.
- Chrysobothris wolcottii**  
 nFisher, P. U. S. N. M. 65; 119, 1925.
- Chrysochloa femoralis, incompleta, varia, willistoni**; nCurran, Amer. Mus. Nov. 339, 2-4, 1929.
- Chrysochraontes**  
 Rehn, Phila. Acad. Nat. Sci. Proc. 80, 189-205, 1928.
- Chrysochus cobaltinus**  
 Brisley, Trans. Amer. Ent. Soc. 51, 169, 1925.
- Chrysogaster bigelowi**  
 nCurran, Can. Ent. 58, 82-83, 1926.
- Chrysogaster ithaca, neotropica**  
 nShannon, Proc. Ent. Soc. Wash. 27, 107-108, 1925.
- Chrysogaster nitidula, ontario, shannoni**  
 niCurran, Kans. Univ. Sci. B. 15, 116-120, 1925.
- Chrysomela scalaris**  
 iPeirson, Me. For. Serv. B. 5, 33, 1927.
- Chrysomelidae**  
 Blake, Brklyn. Ent. Soc. B. 23: 93-98, 1928.  
 Brisley, Trans. Amer. Ent. Soc. 51, 167-182, 1925.  
 Brisley, Pan-Pac. Ent. 4, 114-119, 1928.  
 Douglass, Kans. Ent. Soc. J. 2, 2-15, 1929.  
 Douglass, Kans. Ent. Soc. J. 2, 26-38, 1929.  
 Fall, Cal. Acad. Sci. Proc. ser. 4, 16, 381-395, 1927.
- Chrysomphalus aonidum** (Florida red scale)\*  
 Dean, Amer. Flor. 71; 42, 13, 1929.  
 iDelcurto, Halstead & Halstead, Tex. Dept. Agr. B. 79, 82 83, 1925.  
 iHinds, La. Ext. C. 122, 9, 1929.  
 iHume, Cultivation of Citrus Fruits, 1926, 435-436.  
 Quayle, J. Ec. Ent. 20, 667-673, 1927.  
 iSeverin, So. Dak. Ent. R. 15, 27, 1924.  
 Smith, Cal. Citrog. 14, 315, 326, 1929.  
 Trimble, Pa. Dept. Agr. B. 8: 2, 11, 1925.  
 Trimble, Pa. Dept. Agr. B. 480, 11-12, 1929.  
 iWatson, Fla. B. 183, 313-315, 1926.  
 ilWoodhams, Citrus leaves 8: 6, 6-7, 1928.  
 Smith, Cal. Cit. 14, 315, 326, 1929.
- Chrysomphalus aurantii** (California red scale)\*  
 Compere & Smith, Cal. Univ. Pubs. Ent. 4: 4, 63-73, 1927.  
 Delcurto, Halstead & Halstead, Tex. Dept. Agr. B. 79, 86, 1925.  
 deOng & Knight, J. Ec. Ent. 18, 424, 1925.  
 Hume, Cultivation of Citrus Fruits, 1926, 436.  
 Knight, Hilgardia, 1, 35, 1925.  
 LaFollette, Cal. Citrog. 11, 166, 1925.  
 McBeth, Citrus Leaves, 7; 2, 19, 1927.  
 Merrill, Cal. R. f. 1927-28, 33, 1929.  
 Morris, Cal. Cult. 68, 649, 1927.  
 Quayle, Cal. Citrog. 12, 349, 360, 1927.  
 Russell, Cal. Citrog. 13, 327, 1928.  
 Severin, So. Dak. Ent. R. 15, 28, 1925.  
 Smith, Citrus Leaves 5: 8, 3, 1925.  
 Smith, Cit. Leaves 9: 3, 4-5, 1929.  
 iWatson, Fla. B. 183, 315-316, 1926.  
 Woglum, Cal. Citrog. 11, 106-107, 1926.  
 Woglum, Cal. Citrog. 11, 238, 1926.  
 Woglum, Cal. Fr. Gr. Exch. B. 3, 3-9, 1926.  
 Woglum, Cal. Citrog. 12, 348, 364-365, '27.  
 Woglum, Cal. Fr. Gr. Exch. B. 4, 15-20, 1927.  
 Woglum & LaFollette, Cal. Citrog. 11, 396-397, 1926.  
 Woglum, LaFollette & Landon, Cal. Fr. Grow. Exch. B. 4, 21, 1927.  
 Woglum, LaFollette & Landon, Cal. Fr. Grow. Exch. B. 5, 17-19, 1928.

- Woglum, LaFollette & Landon, Cal. Fr. Grow. Exch. B. 6, 5, 12-13, 16, 1929.  
 Wolff, Calif. Cult. 69, 530, 1927.
- Chrysomphalus auratum**  
 iDeOng, Knight & Chamberlin, Hilgardia, 2, 379-380, 1927.
- Chrysomphalus dictyospermi (Dictyospermum scale)**  
 ibChamberlin, Cal. Agr. Mo. B. 16, 484-491, 1927.  
 ibEssig, Insects of Western No. Amer. 1926, 320-322.  
 Severin, So. Dak. Ent. R. 15, 28, 1924.  
 Smith, Cal. Agr. Mo. B. 16, 404-405, 1927.  
 iTrimble, Pa. Dept. Agr. B. 8; 2, 12, 1925.  
 Trimble, Pa. Dept. Agr. Gen. B. 480, 12, 1929.  
 Watson, Fla. B. 183, 316, 1926.
- Chrysomphalus ficus, see Chrysomphalus aonidum**
- Chrysomphalus obscurus (Obscure scale)\***  
 Dozier, Fla. St. Pl. Bd. Quar. B. 9, 129-133, 1925.  
 Hamner & Langston, Miss. R. 39, 19, 1927.  
 Harned, Miss. R. 38, 28, 1925.  
 iWoodard, Tex. Dept. Agr. B. 81, 169-172, 1925.
- Chrysomyia desvoidyi**  
 Aldrich, P. U. S. N. M. 66; 18, 19, 1925.
- Chrysomyia macellaria (Screw worm)\***  
 Abbott, Psyche 35, 201-204, 1928.  
 Ashburn, Nat. Wool Grow. 18; 3, 33, 1928.  
 Bishopp, U. S. F. B. 734 rev. July 1925, 11.  
 Bishopp, Cattleman 12: 10, 119, 1926.  
 iBishopp, The Cattleman 14: 12, 18-22, 1928.  
 Bishopp, Roark & Laake, J. Ec. Ent. 18, 776-778, 1925.  
 iBlasig, Farm & Ranch, 45; 31, 3 & 9, 1926.  
 Carr, U. S. Naval Med. B. 25, 529-530, 1927.  
 iCarr, U. S. Naval Med. B. 25, 540, 1927.  
 Chandler, Animal Parasites ed. 3, 519, 1925.  
 Darrow, Tex. Ext. Serv. Farm News 11: 24, 2, 1926.
- Darrow, South, Agr. 59: 18, 18, 1929.  
 Dunn, Amer. Jr. Trop. Med. 9, 502, '29.  
 Felt, N. Y. St. Mus. B. 274, 19, 1928.  
 Fernald, Applied Ent. ed. 2, 327, 1926.  
 Gaudet, South Med. J. 18; 6, 824-825, 1925.  
 Hall, U. S. F. B. 1330 rev. 9-10, 1929.  
 Howard, USDA Ent. R. f. 1926, 22.  
 Laake, Parman, Bishopp & Roark, J. Ec. Ent. 19, 536-539, 1926.  
 Lawhon, Prog. Farm. 44, (918T), 1929.  
 Parman, J. Agr. Res. 31, 885-888, 1925.  
 Parman, et al, USDAB 1472, 1927, 32p.  
 Parman, et al, U. S. D. A. Tech. B. 80, 1928. 14p.  
 bRoark, Parman, Bishopp & Laake, Indus. & Engin. Chem. 19, 942-944, 1927.  
 bStewart, Cornell Vet. Jan. 1929, 49-51.  
 iTao, Amer. J. Hyg. 7, 753, 1927.
- Chrysomyia sensua**  
 nCurran, Amer. Mus. Nov. 246, 5, 1927.
- Chrysonema aurum**  
 nibThorne, Amer. Micro. Soc. Trans. 48, 189-190, 1929.
- Chrysopa chrysops**  
 Cebeova, Internat. Cong. Ent. 4, Tr. 2, 579-581, 1929.
- Chrysopa harrisii**  
 iMiller, Fla. B. 203, 461, 1929.
- Chrysopa oculata**  
 ibFluke, Wis. Res. B. 93, 7-8, 1929.
- Chrysopa pluribunda**  
 Fernald, Applied Ent. ed. 2, 224, 1926.
- Chrysopa sp (Trash bugs)**  
 Watson, Fla. B. 183, 308, 1926.  
 iWoodard, Tex. Dept. Agr. B. 81, 181, 1925.
- Chrysopa vulgaris**  
 iPaillot, Internat. Corn Borer Invest. Sci. R. 1, 103, 1928.
- Chrysophana placida**  
 iKeen, Cal. Dept. Nat. Resources B. 7, 61, 1928.
- Chrysophanus helliodes—Food plant**  
 Ritchie, Bklyn. Ent. Soc. B. 24, 103, 1929.
- Chrysophanus hypophlaeus**  
 i——— Md. Acad. Sci. Quar. B. 6; 1, 10-11, 1927.

- Chrysophanus thoë**  
Clark, Psyche 32, 296, 1925.  
Morse, Psyche 32, 298, 1925.
- Chrysopidae**  
iSmith, Sci. Mo. 23, 265-267, 1926.  
Watson, Fla. B. 183, 307, 1925.  
Woodward, Tex. Dept. Agr. B. 95, 152, 1929.
- Chrysopilus cameroni**  
nCurran, Can. Ent. 58, 170, 1926.
- Chrysoplatycerus splendens**  
iTimberlake & Clausen, Cal. Univ. Tech. B. Ent. 3; 2, 279, 1924.
- Chrysops apicalis**  
Hine, Mich. Univ. Mus. Zool. Occas. Papers 162, 19, 1925.
- Chrysops costata**  
Dunn, Amer. Jr. Trop. Med. 9, 502, '29.
- Chrysops discalis and Tularemia**  
Rawson, J. Amer. Vet. Med. Assoc. 74: 7, 1029, 1929.
- Chrysops flavidus**  
Hine, Mich. Univ. Mus. Zool. Occas. Papers 162, 19-20, 1925.
- Chrysops lateralis 14-15, latifasciatus 16-17, leucospilus 19, megaceras 14, melaenus 17-19; nHine, Mich. Univ. Mus. Zool. Occas. Papers 162, 1925.**
- Chrysops sp.**  
iNeedham & Christenson, Utah B. 201, 26, 1927.
- Chrysops spp. (Deer flies)\*—Key**  
Hine, Mich. Univ. Mus. Zool. Occas. Papers 162, 12-14, 1925.
- Chrysops striatus, subcaecutiens, willis-toni; Hine, Mich. Univ. Mus. Zool. Occas. Papers 162, 15-16, 20, 1925.**
- Chrysosoma du, liberia**  
nCurran, Amer. Mus. Nov. 391, 2-4, '29.
- Chrysosomopsis aurata, alcedo, equatorialis, peruviana; Aldrich, Ins. Insc. Mens. 14, 55-58, 1926.**
- Chrysotachina spp.—Key**  
Aldrich, Ins. Insc. Mens. 14, 56, 1926.
- Chrysotoxum aztec 8-9, caeleste 16, chinense 13, chinook 6-7, nShannon, P. U. S. N. M. 69: 11, 1926.**
- Chrysotoxum columbianum**  
nCurran, Can. Ent. 59, 206, 1927.
- Chrysotoxum draco 15-16, fratellum 15, ladakense 13, nShannon, P. U. S. N. M. 69: 11, 1926.**
- Chrysotoxum minor**  
nCurran, Can. Ent. 59, 206, 1927.
- Chrysotoxum mongol 15, nigrifacies 13-14, radiosum 10, tartar, 14, tuberculatum 14-15; nShannon, PUSNM 69: 11, 10, 1926.**
- Chrysostus cockerellae**  
nCurran, Amer. Mus. Nov. 375, 2, 1929.
- Chrysotus contractus**  
niVan Duzee, P. U. S. N. M. 74: 10, 21-22, 1928.
- Chrysotus emarginatus, flavicauda**  
nVan Duzee, Pan-Pac. Ent. 5, 87-88, '28.
- Chrysotus flavimaculata**  
niVan Duzee, PUSNM 74: 10, 22-23, '28.
- Chrysso nigripalpis**  
iBanks, B. Mus. Comp. Zool. 69, 85, '29.
- Chthoneis spp.**  
nBowditch, Psyche 32, 260-263, 1925.
- \*Cicada, see Cicada spp.**
- Cicada hieroglyphica**  
bBeamer, Kans. Univ. Sci. B. 18, 203-206, 1928.  
iDavis, N. J. Dept. Agr. Bur. Stat. C. 97, 13, 1926.
- Cicada sexnotata and Aster yellows**  
Granovsky, Phytopathology 16, 420, 1926.  
Phytopathology 16; 1, 67, 1926.
- Cicada spp**  
iDavis, J. N. Y. Ent. Soc. 34, 177-196, 1926; 35, 373-390, 1927; 36, 29-33, 1928.  
Mann, J. Wash. Acad. Sci. 18, 384-385, 1928.  
Reynolds, St. Nicholas 53, 809-810, June 1926.  
Snodgrass, Sm. R. f. 1923, 443-447.  
Vorhies, Ariz. R. 34, 476, 1923.
- Cicada tibicen—South America**  
iDavis, J. N. Y. Ent. Soc. 33, 35-51, 1925.
- Cicadella apicula 186, brunneatula 185, callosa 179-180, ciactosula 193-194, niOsborn, Ann. Carnegie Mus. 16, 1926.**
- Cicadella clitellaria**  
niOsborn, Ann. Carnegie Mus. 16, 135, '26.
- Cicadella circellata**  
Merrill, Cal. R. f. 1927-28, 68, 1929.
- Cicadella coffeacola**  
niDozier, Porto Rico Dept. Agr. J. 10; 264, 1926.

- Osborn, Porto Rico Dept. Agr. J. 13, 92-93, 1929.
- Cicadella coffeaphila*  
niDozier, Porto Rico Dept. Agr. J. 10; 262-263, 1926.
- Cicadella conjunctula* 193, *corallina* 206, *corrugipennis* 204, *cuneatula* 205-206, *discoïdula* 178-179, *dorsifascia* 182, niOsborn, Ann. Carnegie Mus. 16, 1926.
- Cicadella hieroglyphica*  
bLawson, Can. Ent. 61, 69-70, 1929.
- Cicadella hyalinatula* 182, *inscriptula* 213-214, *interruptula* 181, *limboclavula* 214-215, *lituriceps* 180, *longicornis* 183, *nigricula* 216, *notulatula* 179, *nubicula* 184-185, *occipitula* 214, *olivatula* 209-210, *ornatula* 216-217, *pendulosa* 206-207, *scutellatula* 215, *semicinctula* 215-216, *signatula* 200-201  
niOsborn, Ann. Carnegie Mus. 16, 1926.
- Cicadella similis*  
Osborn, Ann. Ent. Soc. Amer. 19, 340, 1926.  
Osborn, J. Ec. Ent. 19, 101, 1926.  
Osborn, Ref. Bk. Sugar Indus. of World 4, 48, 1926.  
Osborn, Porto Rico Dept. Agr. J. 13, 92, 1929.
- Cicadella sirena*  
Osborn, Porto Rico Dept. Agr. J. 13, 93, 1929.
- Cicadella subhyalina* 184, *sulfureoguttata* 197, *terminalis* 183-184, *tigrinula* 217, *tinctorula* 180-181, *transversula* 218  
niOsborn, Ann. Carnegie Mus. 16, 1926.
- Cicadellidae**  
nDelong, Trans. Amer. Ent. Soc. 52, 89-92, 1926.  
Osborn, Ann. Ent. Soc. Amer. 22, 465-467, 1929.  
Stearns, Va. Tech. B. 31, 1927. 21p.
- Cicadidae**  
bBeamer, Kans. Univ. Sci. B. 18, 155-263, 1928.  
Davis, N. J. Dept. Agr. Bur. Stat. C. 97, 1926. 27p.  
bMcAttee, Proc. Ent. Soc. Wash. 29, 70-72, 1927.  
Myers, Psyche 35, 119-120, 1928.
- Cicadidae—Geraniol bait**  
Tischler, J. Econ. Ent. 22, 823, 1929.
- Cicadula maidis*  
Osborn, J. Ec. Ent. 19, 104, 1926.  
Osborn, Ref. Bk. Sugar Indus. of World, 4, 48, 1926.  
Osborn, P. R. Dept. Agr. J. 13, 100, 1929.
- Cicadula sexnotata* (Six-spotted leaf-hopper)\*  
Beckwith, & Hutton, J. N. Y. Ent. Soc. 37, 247, 1929.  
Davault, Sci. Agr. 6, 169, 1926.  
Fukuda & Sato, Rice J. 30; 4, 12, 1927.  
Granovsky, Phytopathology, 16; 1, 76, 1926.  
King, Sci. Agr. 9, 384, 1929.  
iNichols, Garden & Home Bldg. 45, 606, 1927.  
Severin, Cal. Agr. Exp. Sta. Hilgardia 3; 18, 543-582, 1929.  
— Sci. Suppl. 65; 1692, xiv, 1927.
- Cicadula sexnotata & yellows*  
bDobrosky, Phytopathol. 19, 1009-1015, 1929.  
Severin, Cal. Agr. Exp. Sta. Hilgardia 3; 18, 543-582, 1929.
- Cicindela abdominalis*  
iHamilton, PUSNM 65; 17, 44, 1925.
- Cicindela formosa*  
Criddle, Can. Ent. 57, 192-128, 1925.  
iHamilton, PUSNM 65, 17, 46, 1925.
- Cicindela latisignata*  
Blaisdell, Ent. News 36, 80, 1925.  
iHamilton, PUSNM 65; 17, 29, 1925.
- Cicindela pacifica*  
Blaisdell, Ent. News 36, 81, 1925.
- Cicindela punctulata*  
Balduf, Ent. News 36, 275-276, 1925.  
iHamilton, PUSNM 65; 17, 41, 1925.
- Cicindela scutellaris*  
Fletcher, Can. Ent. 61, 257, 1929.  
iHamilton, PUSNM 65; 17, 48, 1925.
- Cicindela sexguttata*  
Aaron, Nature Mag. 14, 282, 1929.  
iHamilton, PUSNM 65; 17, 23, 1925.
- Cicindela spp.*  
iHamilton, PUSNM 65; 17, 21-55, 1925.  
iDawson, Minn. Tech. B. 56, 3-8, 1928.  
bHorn, Minn. Tech. B. 56, 9-13, 1928.
- Cicindela tanneri*  
nKnaus, Kans. Ent. Soc. J. 2, 47-48, '29.

- Cicindela tranquebarica***  
Frost, Bklyn. Ent. Soc. B. 24, 219, 1929.  
iHamilton, PUSNM 65; 17, 36, 1925
- Cicindela westbournei***  
Knaus, Pan. Pac. Ent. 3, 114, 1927.
- Cicindelidae**  
Bache, Pop. Mech. 49, 907-911, 1928.  
Fernald, Applied Ent. ed. 2, 101, 1926.  
Gilbertson, So. Dak. Acad. Sc. Proc. 29, 22-26, 1929.  
iHamilton, PUSNM 65; 17, 1925, 87p.  
Tanner, Pan-Pac. Ent. 6, 79-87, 1929.  
Williams, Ent. News 40, 178-179, 1929.
- Cicurina* gen., *arcuata***  
Chamberlin, Proc. Biol. Soc. Wash. 38, 124, 1925.
- Cidariophanes proteroa***  
nSchaus Proc. Ent. Soc. Wash. 29, 80-81, 1927.
- \***Cigar case bearer**, *see* *Coleophora fletcherella*
- \***Cigarette beetle**, *see* *Lasioderma serricorne*
- Cimbex americana* (Elm Sawfly)\***  
ide Gryse, Can. Dept. Agr. Ent. Br. Pam. 47, n. s. rev. ed., 21, 1925.  
Gilliatt, Ont. Ent. Soc. R. 59, 13, 1929.  
Peirson, Me. For. Serv. B. 5, 57, 1927.  
iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 27, 1926.
- Cimex hemipterus***  
iChandler, Animal Parasites ed. 3, 77-82, 372-379, 1925.  
Dunn, Amer. Jr. Trop. Med. 9, 505, 1929.
- Cimex lectularius* (Bedbug)\***  
iBrittain, N. S. Dept. Nat. Resource B. 12, 104-105, 1927.  
iChamplain, Nature Mag. 10, 359-361, 1927.  
iChandler, Animal Parasites, ed. 3, 371-372, 1925.  
Cooley, Mont. B. 170, 25, 1925.  
Davis, Ind. C. 150, 11-12, 1928.  
Felt, N. Y. St. Mus. B. 260, 50, 1925.  
iFelt, N. Y. St. Mus. B. 274, 41-43, 1928.  
Fernald, Applied Ent. ed. 2, 183-184, 1926.  
iFrancis, U. S. Pub. H. R. 42, 2763-2772, 1927.  
iGibson & Twinn, Can. Dept. Agr. B. 112, 17-19, 1929.
- iGuyton, Pa. Dept. Agr. Gen. B. 432, 13-14, 1927.
- iHarned & Allen, J. Ec. Ent. 18, 320-331, 1925.  
Hungerford, Kans. St. Bd. Agr. Bien. R. 24, 91-92, 1924.  
Lieber, Ind. Dept. Conserv. R. 9, 49-50, 1927.  
Lieber, Ind. Dept. Conserv. R. 10, 64-65, 1928.
- bLorando, Sci. Month. 29, 265-268, 1929.  
iMcDaniel, Mich. C. B. 94, 6-8, 1926.  
Maheux, Quebec Soc. Protec. Pl. R. 18, 97, 1926.  
iRiley, Nation's Health 7, 616-618, 1925.  
iRiley, Nation's Health 7, 826-827, 1925.  
Rosenau, Preventive Med. ed. 5, 1927, 373-375.  
Sharp, U. S. Naval Med. B. 27, 669-671, 1929.  
iSwenk & Mussehl, Neb. C. 37, 11-15, 1928.  
Vernon, Strouder & Cochran, Iowa Ext. B. 155, 9-10, 1929.
- Cimex pilosellus* (Bat bedbug)**  
Felt, N. Y. St. Mus. B. 260, 50, 1925.  
Felt, N. Y. St. Mus. B. 274, 152, 1928.
- Cimex rotundatus*, *see* *Cimex hemipterus***
- Cimexopsis*, n. gen., *nyctalis***  
List, Proc. Biol. Soc. Wash. 38, 106-108, 1925.
- Cincticornia pilulæ***  
Felt, J. Ec. Ent. 20, 740-741, 1927.
- Cinetus pleuralis***  
nFouts, Proc. Ent. Soc. Wash. 27, 151-152, 1925.
- Cingilia catenaria*, (Chain-spotted geometer)\***  
Gorham, Proc. Acad. Ent. Soc. 10, 58-59, 1925.
- ibPhipps, Me. B. 345, 33-48, 1928.  
Spittall, Proc. Acad. Ent. Soc. 10, 65, 1925.
- Cinygma integrum***  
nMcDunnough, Can. Ent. 58, 302-303, 1926.
- Cinygma tarda***  
niMcDunnough, Can. Ent. 61, 178, 1929.
- Cinyra* spp.—Key**  
Fisher, P. U. S. N. M. 65; 9, 137, 1925.
- Circotettix verruculatus***  
Helwig, J. Morphol. 47, 1-36, 1929.

***Cirphis latiuscula***

ibVickery, J. Agr. Res. 33, 1099-1119, 1926.

***Cirphis unipuncta* (Armyworm)\***Bare, Bu. Farm. 5; 1, Nebr. Farm. Bur.  
Feder. News, Sept. 1929, 21.

Bonnet, Cal. Grape Grow. 9; 2, 7, 1928.

iBrittain, N. S. Dept. Nat. Resource B.  
12, 66-67, 1927.

Caesar, Ont. Dept. Agr. B. 325, 6-8, '27.

Compton, Canning Trade 48; 51, 10, '25.

iCompton, Ill. C. 297, 25-26, 1925.

Cook, Ecol. 10, 283-285, 1929.

Cooper, Fla. Farm. 31; 18, 6, 1929.

Crumb, Bklyn. Ent. Soc. B. 22, 41-43,  
1927.

iDavis, Ind. Farm. Guide, 85, 848, 1929.

iDrake &amp; Decker, Iowa C. 103, 11, 1927.

iDrake &amp; Harris, Iowa C. 101, 1927. 8p.

iDrake & Harris, Iowa Hort. Soc. Tr. 61,  
220-223, 1927.

G. S. W., Penn. Farm. 101, 206, 1929.

Gorham et al, Ont. Ent. Soc. R. 59, 14,  
1929.

Hinds, La. Ext. C. 91, Aug. 1926 4p.

Hudson & Wood, Ont. Ent. Soc. R. 57,  
22-24, 1927.Lieber, Ind. Dept. Conserv. R. 8, 48,  
1926.

McCampbell, Nebr. Farm. 71, 1406, '29.

ihlMohler, Kans. St. Bd. Agr. Quar. R. 48,  
191, 226-228, 1929.Pettit, Mich. Bd. Agr. Rept. f, 1925-26,  
278.

Pettit, Mich. Ent. R. 1926, 17-18,

iPettit, Mich. Sp. B. 183, 60-61, 1929.

Sherman, N. C. R. 47, 72-73, 1925.

Wolcott, P. R. Dept. Agr. J. 9; 1, 47,  
1925.***Cissia mitchelli***

Pallister, Ohio J. Sci. 27, 203-204, 1927.

***Cisthene (Ozodania) juanita***nBarnes & Benjamin, Proc. Ent. Soc.  
Wash. 27, 123-124, 1925.***Cistogaster dominica***

nCurran, Amer. Mus. Nov. 260, 14-15, '27.

***Citheronia guayaquila***nSchaus, Proc. Ent. Soc. Wash. 29, 103,  
1927.***Citheronia johnsoni***nSchaus, Proc. Ent. Soc. Wash. 30, 57,  
1928.***Citheronia regalis* (Hickory horned devil,\*  
Regal Moth)\***Champlain & Kirk, Amer. For. & For.  
Life 32, 455-456, 1926.

Peirson, Me. For. Serv. B. 5, 46, 1927.

***Citheronia sepulchralis* (Pine devil moth)**

Clark, Sci. Mo. 23, 395, 1926.

***Citheronia splendens***Barnes & Benjamin, Proc. Ent. Soc.  
Wash. 27, 123, 1925.***Citricola scale, see, Coccus pseudomagnoliarium*****\**Citrophilus mealybug, see Pseudococcus gahani******Citrus aphid, see Aphis spiraecola******Citrus bark borer, see Agrilus occipitalis*****\**Citrus blackfly, see Aleurocanthus woglumi******Citrus insects***

Berger, Citrus Indus. 6; 4, 20, 1925. "

Bottel, Cal. Dept. Agr. Mo. B. 18, 6  
1929.

Brock, Cal. Citrog. 12, 410-411, 1927.

Brock, Cit. Leaves 7; 9, 61-63, 1927.

Brock, Tubbs & Wright, Cal. Citrog.  
13, 404, 417, 1928.

Chaffin, Fla. Month. B. 12, 61-69, 1927.

Chandler, Cit. Leaves, 8; 1, 10, 1928.

ibClausen, U. S. D. A. Tech. B. 15, 1927.  
16p.

Dade, Cit. Indus. 5; 9, 26, 1924.

Dezell, Cal. Frt. Grow. Exch. R. f. 1927,  
22-23.

Dye, Cit. Indus. 6; 4, 10, 1925.

Dye, Cit. Indus. 6; 4, 10, 1925.

bHinds, La. Ext. C. 122, 1929, 32p.

Hodges, Pac. Rur. Press. 108, 506, 1924.

Holcomb, Cal. Cult. 71, 253, 267, 1928.

Howard, USDA Ent. R. f. 1925, 19-20.

Hume, Cult. of Cit. Fruits, 1926, 424-  
460.

Kirkpatrick, Cal. Cult. 64, 590, 1925.

Klein, Cal. Cult. 69, 3, 1927.

Knight, Cit. Leaves 6; 6, 11, 1926.

LaFollette, Cal. Cit. 12, 135, 147, '27.

McLean, Cit. Leaves 3; 7, 5-6, 1923.

iMason, Spraying, 369-402, 1928.

iMetcalf & Flint, Dest. & Usef. Ins.  
647-659, 1928.

Prizer, Cal. Citrog. 10, 197, Apr. 1925.

iQuayle, Cal. Citrog. 10, 106, Jan. 1925.



**Citrus insects** *Cont'd*

- Silvestri, Internat. Cong. Ent. 4, Tr. 2, 897-904, 1929.  
 iSmith, Cal. Citrog. 11, 414, 1926.  
 Smith, Internat. Cong. Ent. 4, Tr. 2, 191-198, 1929.  
 Volck & Gardner, Cal. Spray Chem. Co. 1928, 24p.  
 Watson, Cal. Citrog. 14, 310, 1929.  
 Watson, Cit. Indus. 6; 4, 32, 1925.  
 iWatson, Fla. B. 183, 293-423, 1926.  
 Watson, Fla. St. Hort. Soc. Proc. f. 1929, 169-173.  
 iWebber, Cal. Citrog. 11; 2, 44, 1925.  
 Wilson, Fla. Grow. 34; 19, 3, 1926.  
 iWoglum, Cal. Citrog. 10, 74, 178, 1924-5.  
 Woglum, Cal. Frt. Grow. Exch. B. 3, 1926, 17p.  
 Woglum et. al, Cal. Frt. Grow. Exch. B. 4, 1927, 32p.  
 Woglum, LaFollette & Landon, Cal. Fr. Grow. Exch. B. 5, 1928, 34p.  
 Woglum, LaFollette & Landon, Cal. Fr. Grow. Exch. B. 6, 1929, 48p.  
 Yothers, Cit. Indus. 4; 6, 5-7, 1923.  
 Yothers, Cit. Indus. 6; 4, 8 & 38, 1925.  
 Cal. Frt. Grow. Exch. R. f. 1928, 18.  
 iCal. Citrog. 13, 358, 1928.

**Citrus insects and entomogenous fungi**

- Cooper, Fla. St. Pl. Bd. Mo. B. 12, 231-232, 1928.

\*Citrus mealybug, *see* *Pseudococcus citri*

Citrus red spider, *see* *Paratetranychus citri*

Citrus root weevil, *see* *Pachneus litus*

\*Citrus rust mite, *see* *Eriophyes oleivorus*

Citrus thrips, *see* *Scirtothrips citri*

\*Citrus whitefly, *see* *Dialeurodes citri*

**Cixiidae**

- Muir, Pan-Pac. Ent. 1, 97-110, 1925.  
 Muir, Pan.-Pac. Ent. 1, 156-163, 1925.

**Cixius praecox, vandykei**

- nVan Duzee, Proc. Cal. Acad. Sci. ser. 4, 14, 404-406, 1925.

**Cladius pectinicornis—B. C.**

- Hearle, Ont. Ent. Soc. R. 59, 36, 1929.

**Clambidae**

- Hatch, J. N. Y. Ent. Soc. 37, 1-6, 1929.

**Claraplumula—n. gen., latifacies**

- nShannon, P. U. S. N. M. 70; 9, 8, 1927.

**Clastoptera—gen.**

- Ball, Bklyn. Ent. Soc. B. 22, 222-225, 1927.  
 Ball, Can. Ent. 59, 103-112, 1927.  
 ibDoering, Kans. Univ. Sci. B. 18, 5-153, 1928.  
 Van Duzee, Pan-Pac. Ent. 6, 62, 1929.  
**Clastoptera cuba**  
 nMetcalf, Psyche, 32, 105, 1925.  
**Clastoptera flavidorsa**  
 nMetcalf, Psyche, 32, 104, 1925.  
**Clastoptera obtusa (Pecan spittle bug)**  
 Leiby, N. C. Dept. Agr. B. Feb. 1925, 44-45.  
 Vorhies, Ariz. R. 33, 220, 1925.

**Clastoptera ochrospila**

- nBall, Bklyn. Ent. Soc. B. 22, 225, 1927.

**Clastoptera proteus (Blueberry spittle bug)**

- iGarman, Conn. B. 265, 307-308, 1925.

**Clastoptera salicis**

- niDoering, Ann. Ent. Soc. Amer. 19, 85-87, 1926.

**Clastoptera spp.**

- nibDoering, Kans. Univ. Sci. B. 18, 33-34, 54, 71-101, 1928.

**Clastoptera stolidia**

- Metcalf, Psyche 32, 104, 1925.

**Clastoptera undulata**

- Metcalf, Psyche 32, 103-104, 1925.

**Clausicellana—n. gen., mitis**

- nCurran, Amer. Mus. Nov. 260, 12, 1927.

Clay-backed cutworm, *see* *Feltia gladiaria*

\*Clear-winged grasshopper, *see* *Camnula pellucida*

Clear wing moth, *see* *Synanthedon pictipes*

**Clemendania—n. gen., pacifera**

- nSchaus, Wash. Ent. Soc. Proc. 31, 46, '29.

**Clemens, Brackenridge—Memorial**

- Ent. News 40, 297-298, 1929.

**Cleon insignificans, simplex**

- niMcDunnough, Can. Ent. 57, 185-186, '25.

**Cleonus shareipoffi**

- niCockerell, P. U. S. N. M. 68; 5, 6, '25.

**Cleridae**

- Chapin, Amer. Mus. Nov. 151, 1924, 4p.

- nChapin, P. U. S. N. M. 71, 1, 1928, 10p.

**Clidophleps tenuis**

- niDavis, J. N. Y. Ent. Soc. 35, 382-383, '27.

**Clidophleps vagans**

- niDavis, J. N. Y. Ent. Soc. 33, 48, 1925.

**Clidophleps wrighti**

nDavis, J. N. Y. Ent. Soc. 34, 188-189, '26.

**Climate & Insects**

Call. Kans. R. f. 1926-28, 67-69.

Headlee, N. J. R. 46, 373-376, 1926.

Headlee, N. J. R. 49, 133-138, 1928.

Lipman, N. J. R. 46, 22, 1926.

Martini, Internat. Cong. Ent. 4, 463-477, 1929.

**Climbing cutworms**

iBritton & Zappe, Conn. B. 292, 130-131, 1927.

Runner, Ohio St. Hort. Soc. Proc. 59, 35-36, 1926.

Williams, Ohio B. 420, 63, 1927.

Yetter, Colo. Ent. C. 47, 14, 1925.

**Clistomorpha alberta, deceptor**

nCurran, Can. Ent. 59, 298-299, 1927.

**Clivina californica, sulcipennis**

nVan Dyke, Pan-Pac. Ent. 1, 124, 125, '25.

**Clivinema spp.—Key, sulcata**

nKnight, Proc. Biol. Soc. Wash. 41, 31-36, 1928.

**Cloeon minor**

nMcDunnough, Can. Ent. 58, 190, 1926.

**Clothes moth, see Tinea pellionella, T.**

biselliella, Trichophaga tapetzella

**Clouded sulphur, see Eurymus philodice**

**\*Cloudy-winged whitefly, see Dialeurodes citrifolii**

**\*Clover aphid, see Anuraphis bakeri**

**\*Clover cutworm, see Scotogramma trifolii**

**\*Clover hay worm, see Hysopygia costalis**

**\*Clover head caterpillar, see Laspeyresia interstinctana**

**Clover insects**

ibWehrle, N. Y. C. B. 489, 1929, 27p.

**Clover leaf caterpillar, see Olethreutes cespitana**

**\*Clover leaf midge, see Dasyneura trifolii**

**Clover leaf-tyer, see Anchylopera angulifasciana**

**\*Clover leaf weevil, see Hypera punctata**

**\*Clover mite, see Bryobia pratensis**

**\*Clover root borer, see Hylastinus obscurus**

**\*Clover seed chalcid, see Bruchophagus funebris**

**\*Clover seed midge, see Dasyneura leguminicola**

**\*Clover stem borer, see Languria mozdardi**

**\*Cluster fly, see Pollenia rudis**

**Cluthaira agaristae**

Girault, Ins. Insc. Mens. 14, 72, 1926.

**Clysia ambiguella**

Dohanian, Psyche, 34, 146-156, 1927.

Stellwaag, Internat. Cong. Ent. 4, Tr. 2, 537-542, 1929.

**Clytoleptus tristis**

Champlain, Kirk & Knull, Ent. News 36, 139, 1925.

**Clytus canadensis**

nHopping, Can. Ent. 60, 246-247, 1928.

**Clytus marginicollis**

Champlain, Kirk & Knull, Ent. News 36, 139, 1925.

**Cnemidocoptes gallinae (Depluming mite)**

M. B. D., Rur. N. Y. 85, 1628, 1926.

M. B. D., Rur. N. Y. 88, 466, 1929.

Herrick, N. Y. Cornell Ext. B. 115, 8-9, 1925.

Swenk & Mussehl, Neb. C. 37, 27-31, 1928.

**Cnemidocoptes laevis**

Beach & Freeborn, Cal. Ext. C. 8, 58, 1929.

Swenk & Mussehl, Neb. C. 37, 25-27, 1928.

**Cnemidocoptes mutans (Scaly-leg mite)\***

iBeach & Freeborn, Cal. Ext. C. 8, 58, 1929.

Brittain, N. S. Dept. Nat. Resource B. 12, 117, 1927.

iBushnell & Brandly, Kans. Manhat. B. 247, 80-82, 1929.

Cory, Poult. Succ. 40; 8, 4, 1929.

Herrick, N. Y. Corn. Ext. B. 115, 7-8, '25.

Kempster, Mo. Farm. 21, 341, 1929.

Miller, Ohio B. 386, 157, 1925.

iSwenk & Mussehl, Neb. C. 37, 27, 1928.

iVernon, Stouder & Cochran, Iowa Ext. B. 155, 8-9, 1929.

**Cnemotettix**

iCaudell, Proc. Ent. Soc. Wash. 30, 103-105, 1928.

**Cnidocampa flavescens (Oriental moth)\***

iHankinson, Better Homes & Gardens, 5; 10, 20, 1927.

Parrott, Proc. N. Y. Hort. Soc. 72, 6-7, 1927.

**Coccidae**

Ballou, Cuba B. 51, 1925, 47p.

Brock, Cal. Citrograph 10, 349, 1925.

Clausen, USDA Tech. B. 15, 1927, 15p.

**Coccidae** *Cont'd*

- iCompere, Cal. Univ. Pub. Ent. 4: 1, 1926, 31p.  
 iCompere, Cal. Univ. Pub. in Ent. 4, 33-50, 1926.  
 bEssig, Insects of Western No. Amer. 1926, 264-268.  
 Fernald, Applied Ent. ed. 2, 210-211, 1926.  
 iFerris, Can. Ent. 57, 228-234, 1925.  
 Harned, Miss. R. 38, 39-40, 1925.  
 ibMyers, Harvard Inst. Trop. Biol. & Med. Cont. 3, 1926. 110p.  
 Trimble, Pa. B. 398, 1925. 21p.  
 Trimble, Ent. News 39, 42-47, 1928.  
 Trimble, Pa. Dept. Agr. B. 480, 1929, 21p.
- Coccidae—Classification**  
 iSteinweden, Ann. Ent. Soc. Amer. 22, 197-245, 1929.
- Coccidae on pine**  
 Keen, Cal. Dept. Nat. Resources Div. For. B. 7, 89, 1928.
- Coccidae—Parasites**  
 Dozier, Del. Univ. Del. Notes, ser. 4, 1926, 61-66.
- Coccidae, Soledad, Cuba**  
 Myers, Harvard Inst. Biol. & Med. Dry season studies III, 69-110, 1926.
- Coccidae, Wax-secreting organs**  
 Ferris, Pan-Pac. Ent. 5, 67-70, 1928.
- Coccidencyrtus ochraceipes**  
 nGahan, P. U. S. N. M. 71; 4, 18-19, '27.
- Coccidotrophus cordiae**  
 nBarber, Psyche 35, 167-168, 1928.
- Coccidoxenus brevicornis, perdubius**  
 nGirault, Ins. Insc. Mens. 14, 129-130, 132-133, 1926.
- Coccidoxenus semicitripes**  
 nGirault, Ins. Insc. Mens. 14, 66, 1926.
- Coccinella oculata**  
 Chittenden, Brooklyn Ent. Soc. B. 21, 37, 1926.  
 ibMiller, Fla. B. 203, 457, 1929.  
 Thompson, Fla. Ent. 11, 50-51, 1928.
- Coccinellidae**  
 Dobzhansky, Internat. Cong. Ent. 4, Tr. 2, 536, 1929.  
 DuPuy, Nature Mag. 10, 249-252, Oct. 1927.  
 bGui, Kans. Ent. Soc. J. 1: 2, 2-13, 1928.  
 Haring, Colliers, 75, 45, Mar. 7, 1925.
- Harrigan, Cal. Cult. 66, 600, 1926.  
 ilongnecker, Iowa Acad. Sci. Proc. 35, 307-311, 1928.  
 Palmer, Fruit Belt 21: 7, 15, 1923.  
 Pickwell, Nature M. 12, 304, N. 1928.  
 biSteinweden, Pan. Pac. Ent. 6, 26-32, 1929.  
 Wilson, Sunset, 55, 51-52, Aug. 1925.  
 ibWilson, Elisha Mitchell Sci. Soc. J. 42, 63-74, 1926.  
 Lit. Dig. 95, 23, Oct. 1, 1927.
- Coccivora, n. gen., californica**  
 niMcAtee & Malloch, Proc. Biol. Soc. Wash. 38, 146-147, 1925.
- Coccophagus anthracinus**  
 inCompere, Cal. Univ. Tech. B. Ent. 3: 3, 309-311, 1925.  
 iCompere, Cal. Univ. Pub. Ent. 4: 1, 11, 1926.  
 Smith & Compere, Cal. Univ. Pub. Ent. 4, 247, 1928.  
 nCitrus Leaves 4: 2, 18, 1925.
- Coccophagus atratus**  
 niCompere, Cal. Univ. Pub. Ent. 4: 1, 2-4, 1926.
- Coccophagus gossypariae**  
 nGahan, P. U. S. N. M. 71; 4, 24, 1928.  
 bGriswold, Ann. Ent. Soc. Amer. 20, 553-555, 1927.
- Coccophagus gurneyi**  
 niCompere, Cal. Univ. Pub. Ent. 5: 1, 1-3, 1929.  
 Ryan, Cal. Dept. Agr. Mo. B. 18, 637-638, 1929.
- Coccophagus lecanii**  
 iCal. Univ. Pub. Ent. 4, 247-250, 1928.
- Coccophagus longifasciatus, lunulatus**  
 iSmith & Compere, Cal. Univ. Pub. Ent. 4, 254-255, 1928.
- Coccophagus malthusi**  
 iCompere, Cal. Univ. Pub. Ent. 4: 1, 5-9, 1926.
- Coccophagus modestus**  
 Merrill, Cal. R. 1924-25, 45, 1926.  
 Merrill, Cal. R. f. 1927-28, 56, 1929.  
 Smith, J. Ec. Ent. 19, 299, 1926.  
 liSmith & Compere, Cal. Univ. Pub. in Ent. 4, 51-61, 1926.  
 Smith & Compere, Cal. Univ. Pub. Ent. 4, 257, 1928.  
 Amer. Fruit Gr. Mag. 45: 3, 48, 1925.

- Coccophagus nubes*, ochraceus, rusti  
nSmith & Compere, Cal. Univ. Pub. Ent.  
4, 257-262, 1928.
- Coccophagus saintebeauvei*  
Smith & Compere, Cal. Univ. Pub. Ent.  
4, 262, 1928.
- Coccophagus triangulatinotus*  
Girault, Ins. Insc. Mens. 14, 133, 1926.
- Coccophagus trifasciatus*  
inCompere, Cal. Univ. Tech. B. Ent. 3; 3,  
311-313, 1925.  
Smith, Cal. Cit. 9, 344, 1925.  
Smith & Compere, Cal. Univ. Pub. Ent.  
4, 263, 1928.
- Coccophagus yoshidae*  
Smith & Compere, Cal. Univ. Pub. Ent.  
4, 263-264, 1928.
- Coccospora stenopelmatis*  
nbiSmith, Cal. Univ. Pub. Zool. 33; 4,  
57-68, 1929.
- Coccotorus hirsutus*, pruniphilus  
Chittenden, Proc. Ent. Soc. Wash. 27,  
130-132, 1925.
- Coccotorus scutellaris*, see *Anthonomus*  
*scutellaris*.
- Coccotorus* spp.  
Chittenden, Proc. Ent. Soc. Wash. 27,  
129-130, 1925.
- Coccotrypes dactyliperda*  
Van Dyke, Pan-Pac. Ent. 3, 151, '27.
- Coccus citricola*, see *Coccus pseudomagnoliarum*
- Coccus elongatus* (Long soft scale)  
Severin, So. Dak. Ent. R. 15, 31-32, '24.
- Coccus hesperidum* (Soft Scale)\*  
Brown, Ariz. R. 33, 242, 1925.  
Dean, Amer. Florist, 71: 42, 6, 29,  
1929.  
iDelcurto, Halstead & Halstead, Texas  
Dept. Agr. B. 79, 86-87, 1925.  
iEssig, Insects of Western No. Amer.  
1926, 288.  
iHinds, La. Ext. C. 122, 11-12, 1929.  
Horton, U. S. F. B. 1031; rev. Oct, 1926,  
29.  
Hume, Cultivation of Citrus Fruits,  
1926, 437-438.  
Lathrop, S. C. Clemson Col. Weekly  
News Notes 13; 46, 1925.  
Severin, So. Dak. Ent. R. 15, 32, 1924.  
iWatson, Fla. B. 183, 320-321, 1926.
- Coccus pseudomagnoliarum* (*Citricola*  
scale)  
Brann, Cal. Citrograph 9, 265, 1925.  
Compere, So. Calif. Acad. Sci. B. 23: 4,  
113-123, 1924.  
Merrill, Cal. R. f. 1927-28, 33, 1929.  
Woglum, Calif. Citrog. 11, 71, 1925.  
Woglum, LaFollette & Landon, Cal. Fr.  
Gr. Exch. B. 4, 22, 1927.  
Woglum, LaFollette & Landon, Cal.  
Fr. Grow. Exch. B. 5, 11-12, 15, 1928.  
Woglum et al, Cal. Fruit Grow. B.  
Exch. 6, 5-6, 8-9, 1929.  
Woglum, et al, Cal. Fr. Grow. Exch. B.  
6, 25-26, 1929.  
iWoodhams, Citrus Leaves 8: 4, 2, 23, 24,  
1928.  
Woodhams, Citrus leaves 8: 5, 2, 1928.  
Woodhams, Calif. Cult. 73, 139, 1929.  
Cal. Fr. Gr. Ex. B. 3, 14, 1926.  
Citrus leaves 5; 6, 15-16, 1925.
- Coccus* sp. (White cochineal)  
iLit. Digest 86, 54-58, Sept. 12, 1925.
- Coccus* spp.  
iTrimble, Pa. Dept. Agr. B. 8: 2, 6, 1925.
- Coccus viridis* (Green coffee scale)  
Bruner, Cuba C. 68, 10-22, 1929.
- Cochliidiidae*—South American  
Dyar, Ins. Insc. Mens. 14, 73-95, 1926.
- Cochliomyia laniaria*  
Aldrich, PUSNM 66: 18, 18-19, 1925.
- Cochliomyia macellaria*—see *Chrysomya*,  
*macellaria*
- Cochliomyia minima*  
nShannon, Proc. Ent. Soc. Wash. 28, 124  
1926.
- Cochliomyia* spp.—Key  
Shannon, Proc. Ent. Soc. Wash. 28, 124,  
1926.
- Cockroaches**  
iChamplain, Nat. Mag. 11, 304-306, '28.  
Cleveland, Sci. 66, 222, 1927.  
Darnell, Farm & Ranch 48: 23, 18, 1929.  
Davis, Ind. C. 150, 10-11, 1928.  
Dowling, La. St. Bd. Health Quart. B.  
16: 1, 5-6, 1925.  
Dowling, La. St. Bd. Health Quar. B.  
18: 1, 12-14, 1927.  
iFulton, Iowa C. 112, 1928, 4p.  
Fulton, Kans. Union Farm. 20; 50, 3,  
1928.

**Cockroaches** *Cont'd*

- iGilson & Twinn, Can. Dept. Agr. B. 112, 22-23, 1929.  
 iGuyton, Pa. Dept. Agr. Gen. B. 432, 3-4, 1927.  
 iHaweis, Nature Mag. 11, 235, Apr. '28.  
 iHermes, Hygeia 4: 157-158, Mar. 1926.  
 iHungerford, Kans. St. Bd. Agr. Bien. R. 24, 106-107, 1924.  
 iJohnson, Am. Dyestuff, Rep. 14, 10-11, Jan. 12, 1925.  
 iMcDaniel, Mich. C. B. 101, 1-7, 1928.  
 Rice, U. S. Pub. Health R. 40, 1808-1811, 1925.  
 W., H. B.—J. N. Y. Ent. Soc. 33, 232, 1925.

**Cockroaches**—Protozoa

- Lucas, J. Parasitol. 14: 161-176, 1928.

**Cockroaches and disease**

- Rosenau, Preventive Med. ed. 5, 1927, 378-379.

**Coconut insects**

- Hermes, Cal. Countryman 11, 10, Nov. 1924.  
 J. Jam. Agr. Soc. 29, 404, 1925.  
 Porto Rico Ins. B. 32, 76, 1924.

**\*Cocoanut mealybug**, *see* **Pseudococcus nipae****\*Codling moth**, *see* **Carpocapsa pomonella****Codling moth tachinia**, *see* **Lixophaga variabilis****Coelambus acaroides**

- Curran, Can. Ent. 58, 90, 1926.

**Coelambus borealis**

- nFall, Pan-Pacific Ent. 2, 137-138, 1926.

**Coelambus bruesi**

- nFall, Psyche 35, 64-65, 1928.

**Coelambus dentiger**

- nFall, Can. Ent. 59, 136, 1927.

**Coelambus thermarum**

- nDarlington, Psyche 35, 1-3, 1928.

**Coelinidea meromyzae**

- Gilbertson, S. D. B. 217, 21, 1925.

**Coelioxys spatuliventer**

- nCockerell, P.U.S.N.M. 71: 12, 11, 1927.

**Coelioxys** spp.—Biology

- Graenicher, Ent. News 38, 273-276, '27.

**Coelocnemis slevini**

- nBlaisdell, Proc. Cal. Acad. Sci. Ser. 4, 14: 337-338, 1925.

**Coelocyba varicincta**

- nGirault, Ins. Insc. Mens. 14, 66, 1926.

**Coeloides pissodis**

- Taylor, Entom. Amer. 9, 208, 1929.  
 bTaylor, Ent. Amer. 10: 67-68, 1929.

**Coelopisthia scutellata**

- nMueschbeck, J. Agr. Res. 34, 331-332, 1927.

- bMueschbeck & Dohanian, U.S.D.A.B. 1487, 27, 1927.

**Coelosattus**—n. gen., *fortineri*

- nBlaisdell, Pan-Pac. Ent. 3, 166-168, '27.

**Coenocharis lowensis**

- nCassino & Swett, Lepidopt. 4, 35-36, '25.

**\*Coffee-bean weevil**, *see* **Araecerus fasciculatus**.**Coffee beetle**, *see* **Xyleborus coffeae****Coffee insects**

- Bruner, Cuba C. 68, 1929, 38p.  
 Sein, P. R. Ins. C. 79, 1923, 6 p.  
 Porto Rico Ins. B. 32, 46-57, D. 1924.  
 "Coffee-pot" cocoon, *see* **Lagoa crispata**.  
 Coffee tree crickets, *see* **Pseudophyllinae**.  
 Coiled rose worm, *see* **Emphytus cinctus**.

**Colaspis brunnea** (Grape colaspis)\*

- Bigger, J. Ec. Ent. 21, 268-273, 1928.  
 Brisley, Trans. Amer. Ent. Soc. 51, 169, 1925.  
 Hayes & Wakeley, La. St. Univ. Agr. & Mech. Col. Univ. B. n.s. 21: 3, 34, 1929.  
 Smith, La. Ext. C. 113: 31, 1928.

**Colaspis hypochlore**

- Gowley, Jamaica Sci. & Agr. Dept. Ann. R. f. 1925, 10, 1926.  
 Gowley, J. Jam. Agr. Soc. 30, 348-349, 1926.

- Salt, J. Wash. Acad. Sci. 18, 434, 1928.

**Coleophora**, *see* **Haploptilia**.**Colias philodice** (Clouded sulphur)

- Chermok, Brklyn Ent. Soc. B. 22, 118, 1927.  
 Gerould, J. Exp. Zool. 43, 413-425, 1926.  
 Nakahara, Brooklyn Ent. Soc. B. 20, 222, 1925.

**Colimaeta**—n. gen., *incisalis*

- nDyar, Ins. Insc. Mens. 13, 9, 1925.

**Colletes howardi**

- nSwenk, Amer. Mus. Novit. 186, 5-9, '25.

**Colletes kobensis**

- nCockerell, Pan-Pac. Ent. 3, 81-82, '26.

**Colletes slevini**

- nCockerell, Proc. Cal. Acad. Sci. ser. 4, 14: 11, 185-186, 1925.

- Colletes susannae*  
nSwenk, Amer. Mus. Novit. 186, 1-5, '25.
- Collops oklahomensis*  
nBrown, Can. Ent. 60, 145-146, 1928.
- Collyris* gen.  
Hamilton, PUSNM 65; 17, 61, 1925.
- Collyris emarginatus*  
iHamilton, PUSNM 65; 17, 62, 1925.
- Colobognatha*  
iCook & Loomis, P. U. S. N. M. 72; 18, 1928, 26p.
- Colopha ulmicola* (Elm cockscomb gall)\*  
Cutright, Ohio B. 387, 198-199, 1925.  
Swaine & Hitchings, Can. Dept. Agr. Ent. B. 28, 53, 1926.
- Color—Influence on flies**  
Martini, Internat. Cong. Ent. 4, Tr. 2, 478, 1929.
- Color dust of the butterfly**  
iKellogg, Nat. Hist. 26, 152-158, Mar. 1926.
- Coloradia bonniwelli* 15, *davisi* 13, *dufneri* 15, *lindseyi* 14-15, *luski* 13-14  
nBarnes & Benjamin, Pan-Pacific Ent. 3: 1, 1926.
- Coloradia pandora* (Pandora moth)  
Essig, Insects of Western No. Amer. 1926, 670-671.  
iKeen, Cal. Dept. Nat. Resources B. 7, 76-78, 1928.  
Keifer, Pan-Pacific Ent. 1, 143, 1925.  
Miller & Hutchinson, Nat. Mag. 12, 156-60, Sept. 1928.  
bPatterson, U. S. D. A. Tech. B. 137, 1929, 19p.
- Colorado corn root-worm*, *see* *Diabrotica virgifera*
- Colorado mayfly*, *see* *Ephemerella coloradensis*.
- \**Colorado pine beetle*, *see* *Dendroctonus approximatus*
- \**Colorado potato beetle*, *see* *Leptinotarsa decemlineata*
- Colpocephalum subaequale*, Bird parasite  
Spencer, Can. Ent. 60, 258, 1928.
- Colpodes rufiventris*  
nVan Dyke, Pan-Pac. Ent. 2, 120-121, '26.
- Coloptera carlota*  
niMyers, Harvard Biol. Lab.—Studies on Cuban Insects 1, 25-26, 1928.
- Columbine borer*, *see* *Papaipema purpurifascia*.
- \**Columbine leaf miner*, *see* *Phytomyza aquilegiae*.
- Colvanalia*, gen. nov.  
Muir, Pan-Pacific Ent. 1, 162, 1925.
- Colydium bicoloratum*  
nBlatchley, Can. Ent. 57, 165-167, 1925.
- Colydium lineola*  
Champlain & Knull, Can. Ent. 57, 114, 1925.
- Comantella fallei*, *pacifica*  
nCurran, Can. Ent. 58, 311-312, 1926.
- Comatacta insularis*  
nCurran, Amer. Mus. Nov. 260, 12-13, '27.
- Combophora**  
Metcalf, Ent. News 38, 14-15, 1927.
- Comma butterfly*, *see* *Grapta comma*.
- Common-blue*, *see* *Lycaena pseudargiolus*.
- \**Common cattle grub*, *see* *Hypoderma lineatum*.
- Common firefly*, *see* *Photuris pennsylvanica*
- Common meadow grasshopper*, *see* *Orchelimum vulgare*
- Common names of insects**, *see* **Insects—Common names**.
- Common wasp*, *see* *Polistes pallipes*
- Common whitefly*, *see* *Dialeurodes citri*.
- Communism among termites**  
iSnyder, Sci. Mo. 21, 461-477, 1925.
- Comperiella* gen.  
iCompere, Cal. Univ. Pubs. in Ent. 4, 44-48, 1926.
- Comperiella bifasciata*  
ilCompere & Smith, Cal. Univ. Pub. Ent. 4: 4, 64-70, 1927.  
Compere, Cal. Univ. Pubs. in Ent. 4, 48, 1926.
- ilMerrill, Cal. R. 1924-25, 45, 1926.  
Merrill, Cal. R. f. 1927-28, 56, 1929.  
Smith, Cal. Citrog. 9, 344, 1925.  
Smith, Citrus Leaves 5; 8, 3, 1925.  
Vandenberg, Guam. R. f. 1927, 14-15, 1929.
- Comperiella unifasciata*  
iCompere, Cal. Univ. Pubs. in Ent. 4, 49-50, 1926.
- Compsilura concinnata*  
il-hbBurgess & Crossman, U. S. D. A. Tech. B. 86, 52-67, 134-136, 1929.  
iSchaffner, J. Ec. Ent. 20, 725-732, 1927.  
bWebber & Schaffner, U. S. D. A. B. 1363, 1926, 31p.

**Cockroaches** *Cont'd*

iGibson & Twinn, Can. Dept. Agr. B. 112, 22-23, 1929.

iGuyton, Pa. Dept. Agr. Gen. B. 432, 3-4, 1927.

iHaweis, Nature Mag. 11, 235, Apr. '28. Herms, Hygeia 4: 157-158, Mar. 1926.

iHungerford, Kans. St. Bd. Agr. Bien. R. 24, 106-107, 1924.

iJohnson, Am. Dyestuff, Rep. 14, 10-11, Jan. 12, 1925.

iMcDaniel, Mich. C. B. 101, 1-7, 1928.

Rice, U. S. Pub. Health R. 40, 1808-1811, 1925.

W., H. B.—J. N. Y. Ent. Soc. 33, 232, 1925.

**Cockroaches**—Protozoa

Lucas, J. Parasitol. 14: 161-176, 1928.

**Cockroaches and disease**

Rosenau, Preventive Med. ed. 5, 1927, 378-379.

**Coconut insects**

Hermes, Cal. Countryman 11, 10, Nov. 1924.

J. Jam. Agr. Soc. 29, 404, 1925.

Porto Rico Ins. B. 32, 76, 1924.

\*Cocoanut mealybug, *see* *Pseudococcus nipae*

\*Codling moth, *see* *Carpocapsa pomonella*

Codling moth tachinia, *see* *Lixophaga*

*variabilis*

**Coelambus acaroides**

Curran, Can. Ent. 58, 90, 1926.

**Coelambus borealis**

nFall, Pan-Pacific Ent. 2, 137-138, 1926.

**Coelambus bruesi**

nFall, Psyche 35, 64-65, 1928.

**Coelambus dentiger**

nFall, Can. Ent. 59, 136, 1927.

**Coelambus thermarum**

nDarlington, Psyche 35, 1-3, 1928.

**Coelinidea meromyzae**

Gilbertson, S. D. B. 217, 21, 1925.

**Coelioxys spatuliventer**

nCockerell, P.U.S.N.M. 71: 12, 11, 1927.

**Coelioxys spp.—Biology**

Graenicher, Ent. News 38, 273-276, '27.

**Coelocnemis slevini**

nBlaisdell, Proc. Cal. Acad. Sci. Ser. 4, 14; 337-338, 1925.

**Coelocyba varicincta**

nGirault, Ins. Insc. Mens. 14, 66, 1926.

**Coeloides pissodis**

Taylor, Entom. Amer. 9, 208, 1929.

bTaylor, Ent. Amer. 10; 67-68, 1929.

**Coelopisthia scutellata**

nMuesebeck, J. Agr. Res. 34, 331-332, 1927.

bMuesebeck & Dohanian, U.S.D.A.B. 1487, 27, 1927.

**Coelosattus**—n. gen., *fortineri*

nBlaisdell, Pan-Pac. Ent. 3, 166-168, '27.

**Coenocharis lowensis**

nCassino & Swett, Lepidopt. 4, 35-36, '25.

\*Coffee-bean weevil, *see* *Araecerus fasciculatus*.

**Coffee beetle**, *see* *Xyleborus coffeae***Coffee insects**

Bruner, Cuba C. 68, 1929, 38p.

Scin, P. R. Ins. C. 79, 1923, 6 p.

Porto-Rico Ins. B. 32, 46-57, D. 1924.

"Coffee-pot" cocoon, *see* *Lagoa crispata*.

Coffee tree crickets, *see* *Pseudophyllinae*.

Coiled rose worm, *see* *Emphytus cinctus*.

**Colaspis brunnea (Grape colaspis)\***

Bigger, J. Ec. Ent. 21, 268-273, 1928.

Brisley, Trans. Amer. Ent. Soc. 51, 169, 1925.

Hayes & Wakeley, La. St. Univ. Agr. & Mech. Col. Univ. B. n.s. 21: 3, 34, 1929.

Smith, La. Ext. C. 113; 31, 1928.

**Colaspis hypochlore**

Gowdey, Jamaica Sci. & Agr. Dept.

Ann. R. f. 1925, 10, 1926.

Gowdey, J. Jam. Agr. Soc. 30, 348-349, 1926.

Salt, J. Wash. Acad. Sci. 18, 434, 1928.

**Coleophora**, *see* *Haploptilia*.**Colias philodice (Clouded sulphur)**

Chermok, Brklyn Ent. Soc. B. 22, 118, 1927.

Gerould, J. Exp. Zool. 43, 413-425, 1926.

Nakahara, Brooklyn Ent. Soc. B. 20, 222, 1925.

**Colimaea**—n. gen., *incisalis*

nDyar, Ins. Insc. Mens. 13, 9, 1925.

**Colletes howardi**

nSwenk, Amer. Mus. Novit. 186, 5-9, '25.

**Colletes kobensis**

nCockerell, Pan-Pac. Ent. 3, 81-82, '26.

**Colletes slevini**

nCockerell, Proc. Cal. Acad. Sci. ser. 4, 14; 11, 185-186, 1925.

- Colletes susannae*  
nSwenk, Amer. Mus. Novit. 186, 1-5, '25.
- Collops oklahomensis*  
nBrown, Can. Ent. 60, 145-146, 1928.
- Collyris* gen.  
iHamilton, PUSNM 65; 17, 61, 1925.
- Collyris emarginatus*  
iHamilton, PUSNM 65; 17, 62, 1925.
- Colobognatha*  
iCook & Loomis, P. U. S. N. M. 72; 18, 1928. 26p.
- Colophia ulmicola* (Elm cockscomb gall)\*  
Cutright, Ohio B. 387, 198-199, 1925.  
Swaine & Hitchings, Can. Dept. Agr. Ent. B. 28, 53, 1926.
- Color—Influence on flies**  
Martini, Internat. Cong. Ent. 4, Tr. 2, 478, 1929.
- Color dust of the butterfly**  
iKellogg, Nat. Hist. 26, 152-158, Mar. 1926.
- Coloradia bonniwelli* 15, *davisi* 13, *dufneri* 15, *lindseyi* 14-15, *luskii* 13-14  
nBarnes & Benjamin, Pan-Pacific Ent. 3: 1, 1926.
- Coloradia pandora* (Pandora moth)  
Essig, Insects of Western No. Amer. 1926, 670-671.  
iKeen, Cal. Dept. Nat. Resources B. 7, 76-78, 1928.  
Keifer, Pan-Pacific Ent. 1, 143, 1925.  
Miller & Hutchinson, Nat. Mag. 12, 156-60, Sept. 1928.  
bPatterson, U. S. D. A. Tech. B. 137, 1929, 19p.
- Colorado corn root-worm, see** *Diabrotica virgifera*
- Colorado mayfly, see** *Ephemerella coloradensis*.
- \***Colorado pine beetle, see** *Dendroctonus approximatus*
- \***Colorado potato beetle, see** *Leptinotarsa decemlineata*
- Colpocephalum subaequale*, Bird parasite  
Spencer, Can. Ent. 60, 258, 1928.
- Colpodes rufiventris*  
nVan Dyke, Pan-Pac. Ent. 2, 120-121, '26.
- Colpoptera carlota*  
niMyers, Harvard Biol. Lab.—Studies on Cuban Insects 1, 25-26, 1928.
- Columbine borer, see** *Papaipema purpurifascia*.
- \***Columbine leaf miner, see** *Phytomyza aquilegiae*.
- Colvanalia*, gen. nov.  
Muir, Pan-Pacific Ent. 1, 162, 1925.
- Colydium bicoloratum*  
nBlatchley, Can. Ent. 57, 165-167, 1925.
- Colydium lineola*  
Champlain & Knull, Can. Ent. 57, 114, 1925.
- Comantella falliei*, *pacifica*  
nCurran, Can. Ent. 58, 311-312, 1926.
- Comatacta insularis*  
nCurran, Amer. Mus. Nov. 260, 12-13, '27.
- Combophora**  
Metcalfe, Ent. News 38, 14-15, 1927.
- Comma butterfly, see** *Grapta comma*.
- Common-blue, see** *Lycaena pseudargiolus*.
- \***Common cattle grub, see** *Hypoderma lineatum*.
- Common firefly, see** *Photuris pennsylvanica*
- Common meadow grasshopper, see** *Orchelimum vulgare*
- Common names of insects, see** Insects—Common names.
- Common wasp, see** *Polistes pallipes*
- Common whitefly, see** *Dialeurodes citri*.
- Communism among termites**  
iSnyder, Sci. Mo. 21, 461-477, 1925.
- Comperiella* gen.  
iCompere, Cal. Univ. Pubs. in Ent. 4, 44-48, 1926.
- Comperiella bifasciata*  
ilCompere & Smith, Cal. Univ. Pub. Ent. 4; 4, 64-70, 1927.  
Compere, Cal. Univ. Pubs. in Ent. 4, 48, 1926.
- ilMerrill, Cal. R. 1924-25, 45, 1926.  
Merrill, Cal. R. f. 1927-28, 56, 1929.  
Smith, Cal. Citrog. 9, 344, 1925.  
Smith, Citrus Leaves 5; 8, 3, 1925.  
Vandenberg, Guam. R. f. 1927, 14-15, 1929.
- Comperiella unifasciata*  
iCompere, Cal. Univ. Pubs. in Ent. 4, 49-50, 1926.
- Compsilura concinnata*  
il-hbBurgess & Crossman, U. S. D. A. Tech. B. 86, 52-67, 134-136, 1929.  
iSchaffner, J. Ec. Ent. 20, 725-732, 1927.  
bWebber & Schaffner, U. S. D. A. B. 1363, 1926, 31p.



**Compsomyia macellaria**

Crocket, Eye, Ear, Nose & Throat  
Monthly 8, 309, 1929.

**Comradia polingi**

nBarnes & Benjamin, Pan Pac. Ent. 4, 2;  
67, 1927.

**Comstockia subterranea**—Parasites

Barber, J. Wash. Acad. Sci. 18, 49, 1928.

**Comstock's Golden Wedding**

Needham, Science 68, 559, 1928.

**"Conchillas,"** *see* **Diabrotica** spp.**Condidea transversa**

nOsburn, Ent. News 37, 51-53, 1926.

**Condyllostylus lunator, tumantumari**

niCurran, Amer. Mus. Novit. 176, 1-4, '25.

**Cone-headed grouse locust,** *see* **Tettigidea prorsa****Confused flour beetle,** *see* **Tribolium confusum.****Coniceromyia cubensis**

niBrues, Psyche, 35, 158-159, 1928.

**Conocephalocoris**—n. gen., **nasicus**

nKnight, Brklyn Ent. Soc. B. 22, 141-  
143, 1927.

**Conocephalus ensiger**

iBrownell, Nature Mag. 8, 79, 1926.

**Conocephalus nemoralis**

Allard, Smithson. R. f. '28, 574-575, '29.

**Conocephalus nigropleurus**

Fox, Ent. News 37, 180-181, 1926.

**Conocephalus saltator**

Illingworth, Pineapple News 2: 8, 123,  
1928.

**Cononotus substriatus**

nVan Dyke, Brklyn. Ent. Soc. B. 23: 258-  
259, 1928.

**Conophthorus coniperda**

iChamplain, Nature Mag. 8: 1, 30, 1926.

iPerison, Me. For. Serv. B. 5, 109-110,  
1927.

**Conophthorus lambertianae, spp.**

iKeen, Cal. Dept. Nat. Res. Div. For. B.  
7, 54-55, 1928.

**Conopidae**

Van Duzee, Cal. Acad. Sci. Proc. 16: 18,  
573-604, 1927.

**Conops argentifacies**

nVan Duzee, Cal. Acad. Sci. Proc. 16;  
18, 547-575, 1927.

**Conops brachyrhynchus**

Curran, Can. Ent. 59, 32, 1927.

**Conops foxi, fraterculus**

nVan Duzee, Cal. Acad. Sci. Proc. 16; 18,  
574-576, 1927.

**Conops lumuva**

nBrimley, Ent. News 38, 235-236, 1927.

**Conops rubicundulus**

nVan Duzee, Cal. Acad. Sci. Proc. 16; 18,  
576-577, 1927.

**Conorhinus sanguisugus**

Herrick, Rural N. Y. 87, 989, 1928.

**Conostigmus ater**

nRouts, Proc. Ent. Soc. Wash. 28, 168,  
1926.

**Conostigmus sp.**

nKamal, J. Ec. Ent. 19, 726, 1926.

**Conostigmus timberlakei, zaglouli**

nKamal, Can. Ent. 58, 285-286, 1926.

**Conotetus obscurus**

Fletcher, Can. Ent. 61, 258, 1929

**Conotrachelus affinis (Hickory nut curculio)**

iMutchler & Weiss, N. J. Dept. Agr. C.  
87, 9-10, 1925.

**Conotrachelus anaglypticus (Cambium curculio)**

Mutchler & Weiss, N. J. Dept. Agr. C.  
87, 14-15, 1925.

**Conotrachelus aratus (Hickory shoot curculio)**

iMutchler & Weiss, N. J. Dept. Agr. C.  
87, 11-13, 1925.

**Conotrachelus crataegi (Quince curculio)\***

Crosby, et al, N. Y. C. B. 498, 73-74,  
1929.

Mutchler & Weiss, N. J. Dept. Agr. C.  
87, 13-14, 1925.

Zappe, Conn. B. 275, 324-325, 1926.

**Conotrachelus cribricollis**

Mutchler & Weiss, N. J. Dept. Agr. C.  
87, 14, 1925.

**Conotrachelus elegans**

Leiby, N. C. Dept. Agr. B. Feb. 1925,  
38.

Mutchler & Weiss, N. J. Dept. Agr. C.  
87, 11, 1925.

**Conotrachelus juglandis (Butternut curculio)**

iMutchler & Weiss, N. J. Dept. Agr. C.  
87, 5-9, 1925.

Peirson, Me. For. Serv. B. 5, 47, 1927.

**Conotrachelus leucophaeatus—Texas**

- Mutchler & Weiss, N. J. Dept. Agr. C. 87, 15, 1925.  
 †**Conotrachelus nenuphar (Plum curculio)\***  
 Bourne, Mass. Fruit Grow. Assoc. R. 35, 120-122, 1929.  
 Bourne et al, Mass. Ext. Leaf, 131, 6-7, 1929.  
 Brannon, N. C. Ext. C. 153, 3, 1925.  
 ilbBrannon, Elisha Mitchell Sci. Soc. J. 43, 79-83, 1927.  
 iBrittain, N. S. Dept. Nat. Resource B. 12, 56, 1927.  
 Britton, Mass. Fr. Grow. Assoc. R. 31, 122-124, 1925.  
 Brunson, S. C. Clemson Col. Wkly. News Notes, 18; 8, 1929, 1p.  
 Butler & Dozier, Penin. Hort. Soc. Tr. 42, 111-117, 1929.  
 Chandler, J. Ec. Ent. 20, 740, 1927.  
 Cory, Penin, Hort. Soc. Tr. f. 1929, 31-32.  
 Crosby, et al, N. Y. C. B. 498, 68, 1929.  
 Felt, N. Y. St. Hort. Soc. Proc. 70, 59, 1925.  
 Flint, Ill. Hort. Soc. Tr. 59, 478, 1926.  
 Flint, Tr. Ill. Hort. Soc. 61, 105-106, 1927.  
 Garman, Conn. B. 275, 286-291, 1926.  
 Garman, J. Ec. Ent. 20, 196-199, 1927.  
 ilbGarman & Zappe, Conn. B. 301, 373-437, 1929.  
 Headlee, N. J. St. Hort. Soc. Proc. 54, 46-47, 1928.  
 Houser, Ohio St. Hort. Soc. Proc. 62, 56-58, 1929.  
 iKnight, Iowa St. Hort. Soc. Tr. 59, 34, 1925.  
 Magill, Ky. St. Hort. Soc. Tr. f. 1925, 155, 1926.  
 iMutchler & Weiss, N. J. Dept. Agr. C. 87, 3-4, 1925.  
 Peirson, Me. For. Serv. B. 5, 51, 1927.  
 Pepper, S. C. Clemson Col. Wkly. News Notes 14; 38, 1926.  
 Petch, Canada Dept. Agr. C. 27 (rev.) 1927, 4p.  
 Phipps, Me. Ext. C. 100, 2, 1929.  
 iPorter, Chandler & Sazama, Ill. Nat. Hist. Surv. B. 17, 269, 1928.  
 Sanders, Md. B. 298, 181-184, 1928.  
 Sanders, Tr. Peninsula Hort. Soc. 41, 18-23, 1928.

- Sherman, N. C. R. 47, 75-76, 1925.  
 ibSnapp, et al, U. S. D. A. B. 1482, 1927, 32p.  
 Snapp, J. Ec. Ent. 21, 175-177, 1928.  
 iiSnapp, U. S. F. B. 1557, 1-8, 1928.  
 Snapp & Swingle, J. Ec. Ent. 22, 98-101, 1929.  
 Whitcomb & Waltham, Mass. B. 247, 318, 1929.  
 iblWhitcomb, Mass. B. 249, 26-52, 1929.  
 Wiggans & Hoppert, Neb. C. 36, 18-19, 1928.  
 Williams & Dozier, Peninsula Hort. Soc. Tr. f. 1929, 39-42.  
 Zappe, Conn. B. 305, 728, 1929.  
**Conotrachelus nenuphar — In canned peaches**  
 Quaintance, Midwest Fruitm. 3; 5, 10, 1929.  
**Conotrachelus posticus**  
 Mutchler & Weiss, N. J. Dept. Agr. C. 87, 14, 1925.  
**Conotrachelus retentus (Black walnut curculio)**  
 Woodward, Tex. Dept. Agr. B. 81, 180, 1925.  
 Woodward, et al, Tex. Dept. Agr. B. 95, 150-151, 1929.  
**Conotrachelus retusus**  
 nFail, Can. Ent. 61, 59, 1929.  
**Conotrachelus seniculus**  
 Mutchler & Weiss, N. J. Dept. Agr. C. 87, 11, 1925.  
**Conotrachelus spp.—List**  
 Mutchler & Weiss, N. J. Dept. Agr. C. 87, 16-17, 1925.  
**Contarinia johnsoni (Grape blossom midge)\***  
 Ross, Ont. Fruit Grow. Assoc. R. 56, 59-60, 1925.  
**Contarinia pyrivora (Pear midge)\***  
 Crosby, et al, N. Y. C. B. 498, 52, 1929.  
 Felt, N. Y. St. Hort. Soc. Proc. 73, 21, 1928.  
 Felt, N. Y. St. Mus. B. 274, 150-151, '28.  
 Munding, N. Y. St. Hort. Soc. Proc. 73, 193-195, 1928.  
 Munding, Proc. N. Y. Hort. Soc. 72, 144-145, 1927.  
 Parrott, Proc. N. Y. Hort. Soc. 72, 7-8, 1927.

- Contarinia sorghicola* (Sorghum midge)  
iGable et al, U. S. F. B. 1566, 1928, 9 p.
- Contarinia tritici*, see *Thecodiplosis mosellana*
- Contarinia vaccinii*—On blueberries  
nDriggers, J. N. Y. Ent. Soc. 34, 82-85, '26.
- Contarinia virginianiae* (Chokeberry midge)  
Felt, N. Y. St. Mus. B. 274, 169, 1928.
- Convergent ladybeetle, see *Hippodamia convergens*
- Convict bug, big, see *Coreocoris confluentis*
- Copablepharon gen.  
Seamans, Can. Ent. 57, 287-290, 1925.
- Copaeodes aurantus*  
Comstock, S. Cal. Acad. Sci. B. 28, 28, '29.
- Copecrypta orbitalis*  
nAldrich, PUSNM 74; 19, 26-27, 1929.
- Copestylum caudatum*, spp.—Table  
nCurran, Ent. News 38, 43-46, 1927.
- Copicucullia antipoda*  
nBarnes & Benjamin, Can. Ent. 59, 6-7, 1927.
- Copidosoma gelechiae, truncatellum*  
Leiby, Ann. Ent. Soc. Amer. 19, 291-294, 1926.
- Copium hamadryas*  
niDrake, Amer. Mus. Nov. 158, 1925, 2 p.
- Copris tullius*  
Hayes, Ann. Ent. Soc. Amer. 21, 286, 1928.
- Coproholaspis muscae*  
Miller, Ohio B. 386, 136, 1925.
- Coprophagous Scarabaeidae  
Brown, Proc. Okla. Acad. Sci. 7, 24-28, 1928.  
— Okla. Univ. B. n. s. 409, Study ser. 29, June 16, 1928.
- Coptocyclus aurichalcea*  
Watson, Fla. Dept. Agr. Quar. B. 39: 3; 131, 1929.
- Coptocyclus bicolor*  
Mason, Ent. News 40, 52-56, 1929.
- Coptocyclus clavata, emarginata*  
Brisley, Tr. Amer. Ent. Soc. 51, 181-182, 1925.
- Coptocyclus pinicola*  
nSchaeffer, J. N. Y. Ent. Soc. 33, 235, '25.
- Coptocyclus signifera*, see *Chirida guttata* (Mottled tortoise beetle)\*
- Coptodisca cercocarpella*  
nBraun, Tr. Amer. Ent. Soc. 51, 218, '25.
- Coptodisca quercicolella*  
nBraun, Tr. Amer. Ent. Soc. 53, 192, '27.
- Coptodisca ribescella*  
nBraun, Tr. Amer. Ent. Soc. 51, 217, '25.
- Coptotermes formosanus*  
Jacobsen, Cal. Dept. Agr. Mo. B. 17; 666, 1928.  
Snyder, J. Wash. Acad. Sci. 18, 44, 1928.  
— Cal. Agr. Mo. B. 17, 371, 1928.
- Coptotermes grandiceps*  
nSnyder, J. Wash. Acad. Sci. 15, 401-402, 1925.
- Coptotermes intrudens*—Honolulu  
Zschokke, Cal. Dept. Agr. Sp. Pub. 85, 43-44, 1928.
- Coptotermes pamuae, solomonensis*  
niSnyder, J. Wash. Acad. Sci. 15, 402, 403, 1925.
- Coptotermes* sp.  
Snyder, J. Wash. Acad. Sci. 18, 381, '28.  
iSnyder, Sci. Mo. 28, 2, 150, 1929.
- Coquillettia albiclava*  
nKnight, Brklyn. Ent. Soc. B. 20, 36, '25.
- Coquillettia jessiana, mimetica*  
nKnight, Ent. News 38, 303-305, 1927.
- Coquillettia nicholi*  
nKnight, Brklyn. Ent. Soc. B. 20, 35, '25.
- Corcyra cephalonica* (Rice moth)  
Back & Cotton, U. S. F. B. 1260; rev. Dec. 1925, 18.
- Cordia alliodora*  
bWheeler, Internat. Cong. Ent. 4, Tr. 2, 342-353, 1929.
- Cordia nodosa*  
bWheeler, Internat. Cong. Ent. Tr. 2, 342-353, 1929.
- Cordilura alberta, criddlei*  
niCurran, Can. Ent. 61, 131, 132, 1929.
- Cordilura fasciventris, inversa*  
nCurran, Can. Ent. 59, 258-259, 1927.  
nCurran, Can. Ent. 61, 131, 1929.
- Cordilura ontario, passiva, varicornis*  
niCurran, Can. Ent. 61, 130-132, 1929.
- Cordulegaster*—Key to species  
bSeemann, J. Ent. & Zool. 19, 26-27, '27.
- Cordyceps barberi*  
Earle, Facts about Sugar 22, 969, 1927.
- Cordyligaster* genus  
Aldrich, J. Wash. Acad. Sci. 17, 84, '27.

**Cordylobia anthropophaga**

Chandler, Animal Parasites ed. 3, 516, 1925.

**Cordylomyia fulva, praelonga, scutellata**  
nFelt, Can. Ent. 58, 266-267, 1926.

**Cordylurella costalis**

nCurran, Can. Ent. 61, 133-134, 1929.

**Cordylurella rufula**

nCurran, Can. Ent. 59, 257-258, 1927.

**Corecoris confluentis**

Watson, Fla. Dept. Agr. Quar. B. 39: 3; 108, 1929.

**Corecoris diffusus**

iChittenden, Fla. St. Pl. Bd. Quar. B. 11, 116-118, 1927.

**Corecoris fuscus** (Sweet potato bug)

Gowley, Jamaica Sci. & Agr. Dept. Ann. R. f. 1927, 21, 1928.

Smith, Jamaica Agr. Dept. Ann. R. f. 1928, 21, 1929.

**Coreidae**

Barber, J. N. Y. Ent. Soc. 34, 209-216, 1926.

biDeay, Kans. Univ. Sci. B. 18: 371-409, 1928.

**Coremothrips pallidus**

nHood, Psyche 32, 52, 1925.

**Corethra cinctipes**

Twinn, Can. Ent. 58, 111, 1926.

**Corethra culiciformis**

Matheson, Can. Ent. 57, 159, 1925.

**Corethrella appendiculata**

Dyar, Ins. Insc. Mens. 14, 150, 1926.

**Corethrella blanda**

nDyar, Ent. News 39, 79-80, 1928.

**Corimelaena californica**

nVan Duzee, Pan-Pac. Ent. 6: 10, 1929.

**Corimelaena pulicaria** (Negrobug)\*

Watson, Fla. Dept. Agr. Quar. B. 39: 3; 126-127, 1929.

Weese, Ill. Biol. Mon. 9; 4, 16, 1924.

**Corimelaena sp.**

Van Duzee, Pan-Pac. Ent. 6: 10, 1929.

**Corixa femorata**

iHungerford, Pan-Pac. Ent. 6, 75-76, 1929.

**Corixa mercenaria**—as food

Barber, Ent. News 39, 17, 1928.

**Corixa williamsi**

nHungerford, Brklyn. Ent. Soc. B. 23: 175, 1928.

**Corixidae**—South America

Hungerford, Brklyn. Ent. Soc. B. 23: 174-180, 1928.

**Corixidea crassa, major, key**

nMcAtee & Malloch, P. U. S. N. M. 67, Art. 13, 25-26, 1926.

**Corizus deflagratus**

niCockerell, Amer. J. Sci. 11; 65, 503, '26.

**Corizus sp.**

ibReadio, Ann. Ent. Soc. Amer. 21, 189-201, 1928.

**Corlicotomus sp.**

Mutchler & Weiss, N. J. Dept. Agr. C. 154, 9, 1929.

**Cormica rufa**

Pfister, Amer. R. of R's, 73, 107, 1926.

\*Corn billbugs, *see* *Sphenophorus* spp.

\*Corn blotch leaf miner, *see* *Agromyza parvicornis*

\*Corn ear worm, *see* *Chloridea obsoleta*

Corn feeding syrphus fly, *see* *Mesogramma politum*

Corn flea beetle, *see* *Chaetocnema pulicaria*

**Corn insects**

Call, Kans. R. f. 1926-28, 71-72.

Forbes, Ill. Nat. Hist. Surv. B. 16, 447-457, 1927.

iMcColloch & Dean, Kans. St. Bd. Agr. Quar. R. 48: 191, 192-236, 1929.

Metcalf & Flint, Dest. & Usef. Ins. 298-353, 1928.

Mote, Ore., C. 65, 26-28, 1926.

Neiswander, Ohio B. 431, 71, 1929.

Corn lantern fly, *see* *Peregrinus maidis*

\*Corn leaf aphid, *see* *Aphis maidis*

Corn oak midge, *see* *Plagiotrichus suberi*

\*Corn root aphid, *see* *Aphis maidiradicis*

\*Corn root webworm, *see* *Crambus caliginosellus*

\*Corn root worm, *see* *Diabrotica longicornis*

Corn sap-beetle, *see* *Carpophilus dimidiatus*

Corn-silk beetle, *see* *Luperodes varicornis*

Corn weevils

Williams, South Cult. 87; 16, 8, 1929.

Cornell powder, *see* Insecticides—Cornell powder

**Cornitermes acignathus**

Snyder, Proc. Ent. Soc. Wash. 31, 84-86, 1929.

- Cornitermes bolivianus*  
 niSnyder, PUSNM 68; 14, 17-19, 1926.
- Corophium spinicorne*  
 Essig, Pan. Pac. Ent. 1, 189-190, 1925.
- Corrodentia* (Book lice)  
 Fernald, Applied Ent. ed. 2, 159-161, 1926.  
 McDaniel, Mich. C. B. 101, 11-12, 1928.
- Corticaria arctophila, cavicauda*  
 nFall, Pan-Pac. Ent. 2, 197-198, 1926.
- Corticaria varicolor*  
 Frost, Brklyn. Ent. Soc. B. 24, 34, 1929.
- Corticotomus californicus*  
 Keen, Cal. Dept. Nat. Resources Div. For. B. 7, 74, 1928.
- Corydalis cornuta* (Helgrammite, Dobson fly)\*  
 Fernald, Applied Ent. ed. 2, 223, 1926.
- Corylophodes flavocellus*  
 nBlatchley, Ent. News 38, 139, 1927.
- Coryphaeschna ingens*  
 Brimley, Ent. News 36, 85, 1925.
- Corythaica renormata*—Galapagos Islands  
 nBarber, Zoologica, N. Y. 5, 251, 1925.
- Corythucha aesculi*  
 Weese, Ill. Biol. Mon. 9; 4, 16-17, 1924.
- Corythucha associata, celtidis*  
 Drake, Fla. Ent. 9, 36, 37, 1925.
- Corythucha decens*  
 Drake, Ann. Carnegie Mus. 16, 379, 1926.  
 Lutz, Ent. News 40, 233, 1929.
- Corythucha fuscigera*  
 Drake, Ann. Carnegie Mus. 16, 378-379, 1926.
- Corythucha gossypii*  
 Drake, Mich. Univ. Mus. Zool. Occ. Papers 190, 5, 1928.
- Corythucha marmorata* (Chrysanthemum lacebug)  
 Bueno, Brklyn. Ent. Soc. B. 20, 179, '25.  
 Felt, N. Y. St. Mus. B. 274, 160, 1928.
- Corythucha monacha* (Eggplant lacebug)  
 Drake, Ann. Carnegie Mus. 16, 378, 1926.
- Corythucha nicholi*  
 nDrake, Fla. Ent. 12, 3, 1928.
- Corythucha pallida*  
 Drake, Fla. Ent. 9, 36, 1925.
- Corythucha palmatis*  
 niDrake, Bklyn. Ent. Soc. B. 24, 37, 1929.
- Corythucha* spp.  
 iDownes, Proc. Ent. Soc. B. C. 22, 14-17, 1925.
- Corythucha ulmi* (Elm lace bug)  
 Felt, N. Y. St. Mus. B. 267, 43, 1926.  
 Felt, N. Y. St. Mus. B. 274, 160-161, '28.  
 Felt, Tree Talk 7; 3, 21, 1926.  
 Zappe, Conn. B. 275, 321, 1926.
- Coscinoptera inornata, mucorea*  
 nFall, Cal. Acad. Sci. Proc. ser. 4, 16, 382-383, 1927.
- Coscinoptera subfasciata*  
 Brisley, Tr. Amer. Ent. Soc. 51, 167, 1925.
- Cosmia orina*  
 iBarnes & Benjamin, Pan-Pac. Ent. 4, 2; 89-90, 1927.
- Cosmina gracilis*  
 nCurran, Amer. Mus. Nov. 246, 2-3, 1927.
- Cosmopepla bimaculata* (Black stink bug)  
 Balduf, J. Ec. Ent. 19, 829-841, 1926.
- Cosmophila erosa*  
 iWatson, Fla. Dept. Agr. Quar. B. 39; 3; 110-111, 1929.
- Cosmophorinus*, new subgen.  
 Viereck, Can. Ent. 57, 73, 1925.
- Cosmopolites sordidus* (Banana root borer)\*  
 Bryan, J. Jam. Agr. Soc. 29, 275, 1925.  
 Gowdey, Jam. Sci. & Agr. Dept. Ann. R. f. 1925, 10-11, 1926.  
 Gowdey, J. Jam. Agr. Soc. 30, 343-344, 1926.  
 Gowdey, Jam. Sci. & Agr. Dept. Ann. R. f. 1926, 16, 1927.  
 Gowdey, Jam. Sci. & Agr. Dept. R. f. 1927, 20, 1928.  
 Sein, Porto Rico Ins. R. f. 1927-8, 24, 1929; R. f. 1927-8, 95, 1929.  
 Smith, Jam. Dept. Agr. R. f. 1928, 20-21, 1929.  
 ——— J. Jam. Agr. Soc. 31, 5-6, 1927.
- Cosmopteryx* spp.  
 iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 168-170.
- Cosmosoma nothina*  
 niSchaus, Proc. Ent. Soc. Wash. 31, 45, 1929.
- Cossid borer*, see *Cossula magnifica*
- Cossonus platealea*  
 Peirson, Me. For. Serv. B. 5, 47, 1927.

**Cossonus sp.**

iKeen, Cal. Dept. Nat. Resources B. 7, 72, 1928.

**Cossula magnifica (Pecan cossid)**

iLeiby, N. C. Dept. Agr. B. Feb. 1925, 46-50.

**Cotalpa lanigera (Goldsmith beetle)**

iHayes, Kans. Tech. B. 16, 97-106, 1925.  
Hayes, Ann. Ent. Soc. Amer. 21, 291, 1928.

**Cotinis nitida (Green June beetle)\***

Chittenden, Proc. Biol. Soc. Wash. 39, 15-17, 1926.  
Hayes, Ann. Ent. Soc. Amer. 21, 293, 1928.  
Hintze, Ann. Ent. Soc. Amer. 18, 31-34, 1925.

iLeach, Goldfom 2: 7, 20-24, 1928.

ibLipp, J. Ec. Ent. 20, 801-805, 1927.  
Matthews, Ky. Ext. C. 209, 21, 1927.  
Snapp, U. S. F. B. 1557, 37-38, 1928.

\*Cotton aphid, *see* *Aphis gossypii*

\*Cotton blister mite, *see* *Eriophyes gossypii*

Cotton cutworm, Yellow-striped armyworm, *see* *Prodenia ornithogalli*

Cotton dauber, *see* *Lygus elisus* & *Uranotes mellinus*

\*Cotton flea hopper, *see* *Psallus seriatus*

**Cotton insects**

Barre, S. C. R. 39, 31-35, 1926.  
iBilsing, Farm & Ranch, 45: 27, 15, 1926.  
Coad, Internat. Cong. Ent. 4, Tr. 2, 241-247, 1929.  
Hamner, Miss. C. 86, 1929. 4 p.  
Isely, Ark. Ext. C. 231, 1927. 8 p.  
Jackson, Okla. Farm. Stockman 42, 651, 1929.  
McGregor, U. S. D. A. Tech. B. 4, 1927, 14 p.  
iMason, Spraying, 488-493, 1928.  
iMetcalf & Flint, Dest. & usef. ins. 409-421, 1928.  
Nikolsky, Internat. Cong. Ent. 4, Tr. 2, 162-164, 1929.  
Pierce, La Hacienda 23, 28-30, 1928.  
Reppert, Farm & Ranch, 45: 31, 9, 1926.  
iSanford & Rude, Okla. Ext. C. 247; 1928, 5-7.  
Tellez, La Hacienda 20, 88-89, 1925.

Young, Farm & Ranch, 45; 6, 15, 1926.

Youngblood, Tex. R. 38, 20-22, 1925.

Cotton leaf perforator, *see* *Bucculatrix thurberiella*

\*Cotton leaf worm, *see* *Alabama argillacea*

Cotton plant bug, *see* *Adelphocoris rapidus*

Cotton plant louse, *see* *Aphis gossypii*

Cotton square dauber, *see* *Lygus elisus*

\*Cotton stainer, *see* *Dysdercus suturellus*

Cottonwood blotch-miners, *see* *Zeugophora scutellaris*, *Z. abnormis*

Cottonwood borer, *see* *Plectrodera scallator*

Cottonwood dagger moth, *see* *Acronycta lepusculina*

\*Cottonwood leaf beetle, *see* *Lina scripta*

Cottony bamboo scale, *see* *Antonina crawi*

\*Cottony-cushion scale, *see* *Icerya purchasi*

\*Cottony maple scale, *see* *Pulvinaria vitis*

\*Cottony peach scale, *see* *Pulvinaria amygdali*

\*Coulee cricket, *see* *Peranabrus scabri-collis*

\*Cowpea aphid, *see* *Aphis medicaginis*

\*Cowpea curculio, *see* *Chalcodermus aeneus*

\*Cowpea weevil, *see* *Bruchus chinensis*

\*Crab louse, *see* *Phthirus pubis*

Crabro albertus, pratus, veles  
nCarter, Can. Ent. 57, 133-135, 1925.

**Crambinae**

Ainslie, Fla. Ent. 11, 12-14, 1927.

**Crambus bonifatellus**

Brock, Cal. Agr. Mo. B. 18, 574, 1929.

**Crambus cypreidalis**

Brock, Cal. Agr. Mo. B. 18, 574, 1929.

**Crambus hortuellus (Cranberry girdler)\***

biBeckwith, N. J. B. 411, 1925, 14 p.  
Beckwith, N. J. R. for 1924, 304, 1925.  
Beckwith, Arn. Cranb. Gr. Assoc. Proc. 56, 18, 1926.

Brown, Oreg. B. 225, 18-19, 1927.

Crowley, Wash. B. 230, 29, 1929.

Headlee, N. J. R. 46, 418, 1925.

**Crambus paganelius**

nMcDunnough, Can. Ent. 57, 12, 1925.

**Crambus rotarelius**

nDyar, Pan-Pacific Ent. 4, 9, 1927.

**Crambus sp.**

Brooks et al, Fla. B. 204, 519, 1929.  
Curtiss, Iowa R. f. 1926, 40.

**Crambus sp. *Cont'd***

Drake and Decker, Iowa C. 103, 12, 1927.

i-lhMohler, Kans. St. Bd. Agr. Quar. R. 48: 191, 204-206, 1929.

Watson, Fla. Dept. Agr. Quar. B. 39: 3; 92-93, 1929.

**Crambus trisectus**

biAinslie, USDA Tech. B. 31, 1927, 18 p.

Cranberry blossom worm, *see* *Eniglaea apiata*

\*Cranberry fruit worm, *see* *Mineola vac-cinii*

\*Cranberry girdler, *see* *Crambus hortu-ellus*

**Cranberry insects**

Bain, Wis. Dept. Agr. B. 82, 72-73, '27.

Bain, Wis. Dept. Agr. B. 98, 111-114, '27.

Beckwith, Amer. Cranberry Assoc. Proc. 58, 14-15, 1928.

Beckwith & Driggers, N. J. R. 46, 418-419, 1926.

Beckwith & Fudge, N. J. R. 49: 169-170, 1928.

Brown, Oreg. B. 225, 15-16, 1927.

Chambers, Wis. Hort. 18, 60-61, 1927.

Chaney, Wis. St. Cranb. Gr. Assoc. R. 41, 6-10, 1927.

Crowley, Wash. B. 222, 72, 1927.

Crowley, Wash. B. 230, 20-29, 1929.

Davis, Mass. B. 247, 313-314, 1929.

Dobrosky, Am. Cranberry Assoc. Proc. 58, 14-15, 1928.

iFranklin, Mass. B. 239, 1928, 67p.

Franklin, Mass. B. 247, 313-314, 1929.

iMason, Spraying, 265-268, 1928.

iMorse, Amer. Cranb. Gr. Assoc. Proc. 56, 4-5, 8, 1925.

Stevens, Am. Cranb. Gr. Assoc. Proc. 60, 10, 1929.

Cranberry midge, *see* *Dasyneura vaccinii*

Cranberry rootworm, *see* *Rhaphdopterus picipes*

\*Cranberry spanworm, *see* *Cleora pampi-naria*

\*Cranberry weevil, *see* *Anthonomus mus-culus*

Crane flies, *see* *Tipulidae*

**Craspedonotus tibialis**

liClausen et al, U. S. D. A. B. 1429, 43-44, 1927.

**Crassomicrodus nigrithorax**

nMuesbeck, P. U. S. N. M. 69: 16, 17-18, 1927.

**Crayfish**

Harried, Miss. R. 1, 1928, 28-29.

Lobdell, Miss. R. 39, 20, 1927.

biTurner, Ohio Biol. Surv. B. 13, 145-195, 1926.

\*Crazy ant, *see* *Prenolepis longicornis*

**Creeping eruption**

iAustmann, J. Am. Med. Assoc. 87, 1196-1200, 1926.

biKirby-Smith & Dove, South. Med. J. 18, 402-411, 1925.

iKirby-Smith, Dove, & White, Am. Med. Assoc. Sec. Dermatol. Tr. 1925, 206-232.

iKirby-Smith, Dove & White, Arch. Dermatol. & Syph. 13, 137-175, 1926.

ibKirby-Smith, Dove & White, Amer. J. Trop. Med. 9, 179-191, 1929.

iWhite & Dove, J. Am. Med. Assoc. 90: 21, 1701-1704, 1928.

Winter, Ky. Med. J. 27, 289-290, 1929.

Wright, J. Am. Med. Assoc. 92, 980, 1929.

Creeping eruption nematode, *see* *Ancylo-stoma braziliense*

Creeping water bug, *see* *Pelocoris caro-linensis*

**Cregya posticalis**

nChapin, PUSNM 71; 2, 10, 1928.

**Cremastidea cremastus**

nCushman, PUSNM 76; 25, 14, 1929.

**Cremastogaster (Acrocoelia) brunnea**

nWheeler, Amer. Mus. Nov. 361, 6-7, '29.

**Cremastogaster (Acrocoelia) dohrni**

Wheeler, Amer. Mus. Nov. 255, 5-6, '27.

**Cremastogaster lineolata**

Gemmer, Naval Stores Rev. 38: 7, 25, 1928.

iMiller & Gans, J. Comp. Psychol. 5, 465-473, 1925.

Rau, St. Louis Acad. Sci. Tr. 25, 191, 1927.

**Cremastus carpocapsae, gracilipes, hartii**

nCushman, PUSNM 76; 25, 10-11, '29.

**Cremastus hierochonticus**

iEllinger & Sachtleben, Internat. Corn Borer Invest. Sci. R. 2, 66, 1929.

**Cremastus hymeniae**

Swezey, J. Ec. Ent. 19, 719, 1926.

- Cremastus pterophori, rhyacioniae, sinuatus**  
 nCushman, PUSNM 76; 25, 12-14, 1929.
- Crenitis gen.**  
 Winters, Pan-Pacific Ent. 3, 53-54, '26.
- Crenitulus**  
 nWinters, Pan-Pacific Ent. 3: 2; 54-55, '26.
- Creontiades debilis**  
 Morrill, J. Ec. Ent. 21, 437, 1928.
- Creontiades fuscus**  
 niBarber, Zoologica, N. Y. 5, 248, 1925.
- Creophilus villosus**  
 iTalbot, Ohio J. Sci. 28, 261-268, 1928.
- Creosote, see Insecticides—Creosote**
- Crepe myrtle aphid, Crepe myrtle plant louse, see Myzocallis kahawaluokalani**
- Crepidodera atriventris**  
 bBaldus, J. Ec. Ent. 19, 624-632, 1926.
- Crepidodera helixines**  
 Britton & Zappe, Conn. B. 292, 145, '27.
- Crepidodera rufipes (Red-legged flea beetle)\***  
 Peirson, Me. For. Serv. B. 5, 81, 1927.
- Crepidodera solani**  
 nBlatchley, Can. Ent. 57, 167-168, 1925.
- Crepidomyia, n. gen., triceps**  
 Shannon, Proc. U. S. N. M. 69, Art. 9, 47-48, 1926.
- Cressonia juglandis (Walnut sphinx)\***  
 iLeiby, N. C. Dept. Agr. B. Feb. 1925, 33-34.
- Cricotopus abana**  
 nCurran, Amer. Mus. Nov. 339, 1-2, '29.
- Cricotopus brunnicans**  
 nWalley, Can. Ent. 60, 21-22, 1928.
- Cricotopus—Key to N. Am. species**  
 Walley, Can. Ent. 60, 22, 1928.
- Criddleria hemiptera**  
 niCurran, Can. Ent. 61, 32, 1929.
- Criocerini—key**  
 Brisley, Pan-Pac. Ent. 4, 116-117, 1928.
- Crioceris asparagi (Asparagus beetle)\***  
 Barre, S. C. R. 42, 57, 1929.  
 Britton, Conn. B. 285, 172-173, 1926.  
 Brunson, S. C. Wkly. News Notes, 18; 5, 1929.  
 iCaesar, Ont. Dept. Agr. B. 325, 16-18, 1927.  
 Chittenden, Oreg. Bd. Hort. R. 1923, 183-190.
- Compton, Canning Trade 48; 52, 14, 1925.
- iCompton, Ill. C. 297, 42-44, 1925.
- Compton, Ill. Hort. Soc. Trans. 59, 311-312, 1926.
- Crowell, Psyche 36, 101, 1929.
- iDrake & Harris, Iowa Hort. Soc. Tr. 61, 226-228, 1927.
- iFernald, Applied Ent. ed. 2, 123-124, 1926.
- iFitch, Iowa Hort. Soc. Trans. 60, 232, 1925.
- Hatch, Brooklyn Ent. Soc. B. 22, 211, 1927.
- Keener, Ga. Ext. B. 339, 15-16, 1927.
- Latta, Psyche 35, 229-231, 1928.
- MacLeod, Penn. St. Coll. C. 122, 18-19, 1929.
- Mote, Oreg. C. 65, 21, 1926.
- iPettit, Mich. Sp. B. 183, 25, 1929.
- Scharring-Hausen, C. Gentl. 90: 38, 67, 1925.
- Yothers, J. Ec. Ent. 18, 552-553, 1925.
- Crioceris duodecimpunctata (Spotted asparagus beetle)\***  
 iCaesar, Ont. Dept. Agr. B. 325, 18-19, 1927.
- Keener, Ga. Ext. B. 339, 15, 1927.
- McHatton, Firor & Keener, Ga. Ext. B. 257, rev., 23, 1926.
- Pettit, Mich. Sp. B. 183, 26, 1929.
- Criorhina caudata**  
 niCurran, Kans. Univ. Sci. B. 15, 151-152, 1925.
- Criorhina excavatus**  
 nCurran: Ann. Ent. Soc. Amer. 22: 498-499, 1929.
- Criorhina latipilosa** 149, **mystaceae** 144  
 niCurran, Kans. Univ. Sci. B. 15, 1925.
- Criorhina pallidipes, spinatarsis**  
 nCurran: Ann. Ent. Soc. Amer. 22: 498, 499, 1929.
- Crociosema plebeiana**  
 Bottimer, J. Agr. Res. 33, 817, 1926.
- Crop pests.**  
 Davis, Southern field crop enterprises including soil management, 1928, 550 p., illus.  
 Hough, Sci. Amer. 141, 124-127, 1929.  
 Hutchings, Ont. Ent. Soc. R. 57, 7-8, 1927.  
 Keely, Kans. Ext. B. 62, 1929, 34 p.



**Crop pests** *Cont'd*

- Pena, La Hacienda 22, 245-247, 1927.  
 Smith, U. S. D. A. Coop. Ext. Work 1927, 65, 1929.  
 bTehon, Ill. Nat. Hist. Surv. B. 17, 321-346, 1928.  
 Watson, Fla. Dept. Agr. Quar. B. 39: 3, 201-204, 1929.
- \***Cross-striped cabbage worm**, *see* *Evergestis rimosalis*
- Crossocosmia sericariae**  
 Burgess & Crossman, U. S. D. A. Tech. B. 86, 115, 1929.
- Croton bug, German cockroach**, *see* *Blattella germanica*
- Cryogonus** *gen.*, *reedi*  
 nCresson, Trans. Amer. Ent. Soc. 52, 264, 1926.
- Cryptacanthacrinae**  
 Wilson, S. D. R. 41, 18-19, 1928-9.
- Cryptamorpha desjardinsi**  
 Illingworth, Pineapple News 1, 89, 1927.
- Crypthemichionaspis ulmi**  
 niHoke, Ann. Ent. Soc. Amer. 20, 350-352, 1927.
- Cryptocellus arberi, emarginatus, magnus, mannib** niEwing, Ann. Ent. Soc. Amer. 22, 589-595, 1929.
- Cryptocephalomorpha spp.**—*key*  
 Notman, PUSNM; 67 14, 12, 1925.
- Cryptochaetum iceryae**  
 iEssig, Insects of Western No. Amer. 1926, 615.
- Cryptochaetum monophlebi**  
 Smith, J. Ec. Ent. 19, 296, 1926.
- Cryptocheilus birkmanni, carinatus**  
 nBanks, Can. Ent. 58, 202, 1926.
- Cryptocheilus cressoni**  
 nBanks, Psyche, 36, 326, 1929.
- Cryptocheilus manni**  
 nBanks, Harvard Biol. Lab.—Studies on Cuban Insects, 1, 6, 1928.
- Cryptocheilus rubellus**  
 Hingston, Instinct & Intelligence, 1929, 195-196.
- Cryptocheilus severini**  
 nBanks, Can. Ent. 58, 202, 1926.
- Cryptocladocera prodigiosa**  
 Townsend, J. N. Y. Ent. Soc. 36, 84, '28.
- Cryptocleptes minor**  
 nBlackman, N. Y. State Coll. For. B. 1: 3-b, 207-208, 1928.

**Cryptococcus fagi** (Beech scale)\*

- Gorham, et al, Ont. Ent. Soc. R. 59, 16, 1929.  
 Hutchings, Quebec Soc. Protec. Pl. R. 18, 116, 1925-1926.  
 Peirson, Me. For. Serv. B. 5, 36-37, '27.  
 Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 47-48, 1926.
- Cryptognatha nodiceps**  
 Cockerell, Science, 68, 566-567, 1928.
- Cryptogonus orbiculus**  
 Vandenberg, Guam R. f. 1925, 18, 1926.  
 Vandenberg, Guam R. f. 1926, 16, 1928.
- Cryptokermes mexicanus**  
 nMorrison, Proc. Biol. Soc. Wash. 40, 103, 1927.
- Cryptolabis advena**  
 nAlexander, Ent. News 39, 180-182, '28.
- Cryptolabis fuscovenosa**  
 nAlexander, Ann. Ent. Soc. Amer. 21, 118-119, 1928.
- Cryptolabis luteiceps**  
 nAlexander, Ann. Ent. Soc. Amer. 20, 315-316, 1927.
- Cryptolabis minutula**  
 Alexander, J. N. Y. Ent. Soc. 35, 62-63, 1927.
- Cryptolaemus montrouzieri**  
 Armitage, J. Ec. Ent. 22, 910-915, '29.  
 Cockerell, J. Ec. Ent. 22, 271, 1929.  
 bEarle, Facts about Sugar 22, 1010, 1927.  
 Ryan, Cal. Citrog. 11, 207, 1926.  
 Smith, J. Ec. Ent. 18, 148, 1925.  
 Smith, J. Ec. Ent. 19, 300, 1926.
- biSteinweden, Pan-Pac. Ent. 6, 27, 1929.  
 iTubbs, Cal. Citrog. 13, 328, 1928.
- Cryptolaemus sp.**  
 Armitage, Cal. Cult. 64, 675, 1925.  
 Armitage, Cal. Citrog. 13, 460, 1928.  
 Armitage, Cal. Cult. 71, 280-281, 1928.  
 Brock, Cal. Dept. Agr. Mo. B. 18, 369, 1929.  
 Ryan, Cal. Dept. Agr. Mo. B. 16, 260, 1927.  
 Ryan, Cal. Agr. Mo. B. 18, 366, 1929.  
 iSmith, Cal. Cit. 11, 428, 1926.  
 Smith, Cal. Citrog. 14, 428-429, 1929.  
 Smith & Compere, Cal. Dept. Agr. Mo. B. 18: 214-218, 1929.
- iWoglum, Calif. Citrog. 11, 316-319, 1926.  
 Cal. Cult. 68, 651, 1927.

- Citrus Leaves 8: 10, 17, 1928.  
 Citrus Leaves 8: 11, 23, 1928.
- Cryptolestes pusillus** (Flat grain beetle)  
 iBack & Cotton, U. S. F. B. 1260; rev.  
 Dec. 1925, 33.
- Cryptomeigenia flavibasis**  
 nCurran, Brklyn Ent. Soc. B. 22, 145-146,  
 1927.
- Cryptophagus maximus**  
 inBlake, Psyche 35, 109-111, 1928.
- Cryptorhopalum picicorne**  
 bMutchler & Weiss, N. J. Dept. Agr. C.  
 108, 12, 1927.
- Cryptorhopalum sp.—Key**  
 bMutchler & Weiss, N. J. Dept. Agr. C.  
 108, 23-24, 1927.
- Cryptorhynchus lapathi** (Poplar and willow  
 tree borer, Willow curculio)  
 lbBoisvert, Quebec Soc. Protec. Pl. R. 18,  
 122-125, 1926.  
 Britton, Conn. B. 294, 297, 1928.  
 iBritton & Zappe, Conn. B. 292, 149, '27.  
 Hamilton, N. J. R. 47, 196-197, 1927.  
 Peirson, Me. For. Serv. B. 5, 124, 1927.  
 Pettit, Mich. St. Bd. Agr. R. 63, 212,  
 1924.  
 Swaine & Hutchings, Can. Dept. Agr.  
 Ent. B. 28, 40, 1926.  
 Flor. Exch. 60; 21, 1687, 1925.
- Cryptorhynchus mangiferae** (Mango weevil)  
 Jacobsen, Cal. Agr. Mo. B. 17, 666, '28.  
 Pope, Hawaii B. 58: 13, 1929.
- Cryptorhynchus nocturnus**  
 King, Sci. Agr. 8, 703, 1928.
- Cryptostemma pedunculatum, smithi**  
 nMcAtee & Malloch, P. U. S. N. M. 67,  
 Art. 13, 9-10, 1926.
- Cryptostemma spp.—Key, uhleri**  
 McAtee & Malloch, P. U. S. N. M. 67,  
 Art. 13, 9, 10, 1926.
- Cryptostemmatidae—U. S. Nat. Mus.**  
 biMcAtee & Malloch, P. U. S. N. M. 67;  
 13, 1926, 42 p.
- Cryptostigma biorbiculus, reticulolaminae**  
 niMorrison, Ent. Soc. Amer. Ann. 22,  
 48-53, 1929.
- Cryptotermes brevis**  
 Foster, J. Ec. Ent. 19, 808, 1926.
- Cryptotermes hermsi**  
 Herms, Pan-Pacific Ent. 2, 53, 1925.
- Kirby, Cal. Univ. Pub. Zool. 26; 23,  
 437, 1925; 29, 103, 116-117, 1926.
- Cryptotermes mexicanus**  
 nMorrison, Proc. Biol. Soc. Wash. 40,  
 103, 1927.
- Cryptotermes piceatus**  
 iFullaway, Timberman 28: 9, 170-176,  
 1927.  
 Snyder, J. Wash. Acad. Sci. 18, 43-44,  
 1928.
- Cryptothrips acuticornis**  
 nHood, Psyche 32, 65, 1925.
- Cryptothrips (?) breviventris**  
 niHood, Ent. Americana 7, 221-223, 1927.
- Cryptothrips connaticornis, gradatus**  
 nHood, Psyche 32, 64, 1925.
- Cryptothrips sordidatus**  
 nHood, Proc. Biol. Soc. Wash. 40, 199,  
 1927.
- Crypturopsis abdominalis**  
 nCushman, PUSNM 74; 16, 28-29, 1929.
- Cryptus caligatus**  
 niCushman, PUSNM 72; 13, 2-3, 1928.
- Cryptus paitensis**  
 nCushman, P.U.S.N.M., 76; 25, 2, 1929.
- Cryptocanthacrinae** (Grasshoppers) S. Dak.  
 Wilson, S. Dak. Ann. R. 1928, 18.
- Cryptocerus umbraculatus**  
 Lutz, Amer. Mus. Novit. 388, 18, 1929.
- Cryptophyllus concavus, see Pterophylla  
 camellifolia**
- Ctenocephalus canis** (Dog flea)\*  
 Beach & Freeborn, Cal. Ext. C. 8, 64,  
 1929.  
 Chandler, Animal Parasites, ed. 3, 83,  
 416, 1925.  
 Davis, Ind. C. 150, 12-13, 1928.  
 iFelt, N. Y. St. Mus. B. 274, 34, 1928.  
 iGuyton, Pa. Dept. Agr. Gen. B. 432,  
 14-15, 1927.  
 Hall, U. S. D. A. Dept. C. 338, 14, 1925.  
 Lieber, Ind. Dept. Conserv. R. 9, 49,  
 1927.  
 iMcDaniel, Mich. C. B. 94, 3, 1926.  
 Williams, U. S. Pub. Health R. 44, 455,  
 1929.
- Ctenocephalus felis** (Cat flea)\*  
 Bequaert, Harvard Inst. Trop. Biol. &  
 Med. Cont. 4, 247-248, 1926.  
 iDavis, Ind. C. 150, 12-13, 1928.  
 Felt, N. Y. St. Mus. B. 274, 35, 1928.

**Ctenocephalus felis** *Cont'd*

Guyton, Pa. Dept. Agr. Gen. B. 432,  
14-15, 1927.

Lieber, Ind. Dept. Conserv. R. 9, 49,  
1927.

**Ctenothrips frosti**

nMoulton, Bklyn. Ent. Soc. B. 24, 233-  
234, 1929.

**Ctenucha sp., virginica**

i Patch, Natural History N. Y. 26, 200-  
205, 1926.

"Cuban fly," *see* *Lixophaga diatraea*

\*Cuban-laurel thrips, *see* *Gynaikothrips*  
*uzeli*

**Cubana trinitatis**

niMyers, Harvard Biol. Lab.—Studies on  
Insects 1, 15-16, 1928.

**Cuculeocus n. gen.**

Ewing, Proc. Ent. Soc. Wash. 28, 148,  
1926.

**Cucumber insects**

Drake & Harris, Iowa C. 90 rev., 1926,  
12 p.

Hedrick, N. Y. Gen. R. 48, 58, 1929.

Huckett, Wallace's Farm, 54, 867, 1929.

Morrison, N. Y. Gen R. 47: 48-49, 1928.

Poe, Purdue Agr. 19, 166, 1925.

iThompson, Virgin Isl. R. f. 1926, 7, 1927.

**Culex—Genus**

Freeborn, Cal. Univ. Pub. Ent. B. 3,  
420-422, 1926.

**Culex (Aedinus) accelerans**

nRoot, Am. J. Hyg. 7, 581, 1927.

**Culex aglischrus**

Dunn, Amer. J. Trop. Med. 9, 496-497,  
1929.

**Culex (Choeroporpa) albinensis—Brazil**

Dyar & Shannon, J. Wash. Acad. Sci.  
15, 40, 1925.

**Culex (Choeroporpa) andricus**

nRoot, Am. J. Hyg. 7, 592, 1927.

**Culex (Choeroporpa) anips**

Freeborn, Cal. Univ. Tech. B. Ent. 3:  
424-425, 1926.

**Culex (Microculex) aphyllactus**

nRoot, Am. J. Hyg. 7, 584, 1927.

**Culex (Neoculex) apicalis**

iFreeborn, Cal. Univ. Tech. B. Ent. 3:  
425-428, 1926.

**Culex (Phalangomyia) archegus**

nDyar, Amer. J. Hyg. 9, 511, 1929.

**Culex (Phalangomyia) articulatus**

Dyar, Ins. Insc. Mens. 14, 42-43, 1926.

**Culex (Choeroporpa) automartus**

nRoot, Am. J. Hyg. 7, 591, 1927.

**Culex (Culex) badgeri**

Freeborn, Cal. Univ. Tech. B. Ent. 3:  
444, 1926.

**Culex (Choeroporpa) bequaerti—Brazil**

nDyar & Shannon, J. Wash. Acad. Sci.  
15, 39, 1925.

**Culex (Melanoconion) bifoliatius**

Dyar, Ins. Insc. Mens. 14, 113-114, 1926.

**Culex (Choeroporpa) cenus**

nRoot, Am. J. Hyg. 7, 590, 1927.

**Culex coronator**

Dyar, Ins. Insc. Mens. 13, 28, 1925.

**Culex (Phalangomyia) debilis**

Dyar, Ins. Insc. Mens. 14, 42, 1926.

**Culex (Phalangomyia) diplophyllum**

nDyar, Amer. J. Hyg. 9, 509-511, 1929.

**Culex (Choeroporpa) dyius**

nRoot, Am. J. Hyg. 7, 587, 1927.

**Culex (Culex) erythrothorax**

Freeborn, Cal. Univ. Tech. B. Ent. 3:  
442-443, 1926.

**Culex (Choeroporpa) evansae**

nRoot, Am. J. Hyg. 7, 593, 1927.

**Culex excrucians, *see* *Mansonia perturbans*****Culex (Melanoconion) exedrus**

nRoot, Am. J. Hyg. 7, 580, 1927.

**Culex fatigans**

Felt, N. Y. St. Mus. B. 274, 29, 1928.

McKinley, Phil. J. Sci. 39, 183, 1929.

O'Connor, P. R. Rev. Pub. Health 3:

6, 218-219, 1927.

**Culex fragilis, fulleri**

Dyar & Shannon, Ins. Insc. Mens. 13,  
85, 1925.

**Culex (Microculex) hedys**

nRoot, Am. J. Hyg. 7, 584, 1927.

**Culex (Melanoconion) loturus**

nDyar, Ins. Insc. Mens. 13, 214, 1925.

**Culex (Culex) lygrus**

nRoot, Am. J. Hyg. 7, 579, 1927.

**Culex (Choeroporpa) macaronensis**

nDyar & Tovar, Ins. Insc. Mens. 14,  
153-154, 1927.

**Culex (Mochlostyrax) megapus**

nRoot, Am. J. Hyg. 7, 595, 1927.

**Culex (Choeroporpa) meroneus**

nDyar, Ins. Insc. Mens. 13, 22, 1925.

**Culex (Microculex) microphyllus**

nRoot, Am. J. Hyg. 7, 586, 1927.

**Culex (Culiciomyia) nebulosus**

Bauer, Am. J. Trop. Med. 8, 271-273, 1928.

**Culex nematoides**

nDyar & Shannon, Ins. Insc. Mens. 13, 84-85, 1925.

**Culex (Choeroporpa) oedipus \***

nRoot, Am. J. Hyg. 7, 588, 1927.

**Culex (Choeroporpa) opisthopus**

nKomp, Ins. Insc. Mens 14, 44-45, 1926.

**Culex pipiens (Rainbarrel mosquito)**

iFelt, N. Y. St. Mus. B. 274, 29, 1928.  
Fernald, Applied Ent. ed. 2, 309-310, 1926.

Freeborn, Cal. Univ. Tech. B. Ent. 3: 429-431, 1926.

Guyton, Pa. Dept. Agr. Gen. B. 432, 16-17, 1927.

Hearle, Nat. Res. Council Canada 17, 49-50, 1926.

bHuff, Biol. Bul. 56, 347-350, 1929.

iHuff, Biol. B. 57, 172-175, 1929.

Kligler, Muckenfuss & Rivers, Proc. Soc. Expt. Biol. & Med. 26, 128-129, 1928.

Kliger, Muckenfuss & Rivers, J. Expt. Med. 49, 649-660, 1929.

Maheux, Quebec Soc. Protec. Pl. R. 18, 102, 1926.

Reiley, Atlantic Co. Mo. Exterm. Com. R. 15, 24, 1927.

ibTwinn and Ryan, Quebec Soc. Protec. Pl. R. 19, 12-16, 1927.

**Culex (Choeroporpa) plectoporpe**

nRoot, Am. J. Hyg. 7, 589, 1927.

**Culex quinquefasciatus**

Barber, U. S. Pub. H. R. 43, 13, 1928.  
Beyer, La. St. Bd. Health Quar. B. 16; 3, 149, 1925.

Cory & Eaton, Md. B. 308, 427, 1929.

Dunn, Amer. J. Trop. Med. 9, 498, 1929.

iFreeborn, Cal. Univ. Tech. B. Ent. 3: 431-434, 1926.

Marcovitch, Tenn. B. 139, 26-36, 1928.

Siler, Hall & Hitchens, Dengue, 63-167, 1926.

**Culex (Choeroporpa) serratimarge**

nRoot, Am. J. Hyg. 7, 589, 1927.

**Culex spp.**

Twinn, Quebec Soc. Protec. Pl. R. 18, 89-91, 1926.

ibRoot, Amer. J. Hyg. 7, 574-598, 1927.

Dyar, Insec. Ins. Mens. 13, 156, 1925.

Freeborn, Cal. Univ. Tech. B. Ent. 3: 422-423, 1926.

**Culex (Culex) stigmatosoma**

iFreeborn, Cal. Univ. Tech. B. Ent. 3: 438-440, 1926.

**Culex (Culex) tarsalis**

iFreeborn, Cal. Univ. Tech. B. Ent. 3: 435-437, 1926.

Hearle, Nat. Res. Council Canada R. 17, 42, 1926.

**Culex (Culex) territans**

iFreeborn, Cal. Univ. Tech. B. Ent. 3: 440-442, 1926.

Kudo, Biol. B. 48, 112, 1925.

**Culex testaceus**

Hearle, Nat. Res. Council Canada, 17, 47-48, 1926.

**Culex (Microculex) tyrchnus**

nRoot, Am. J. Hyg. 7, 585, 1927.

**Culex whitmorei**

Dyar & Shannon, Ins. Insc. Mens. 13, 84, 1925.

**Culicella alaskaensis, impatiens**

Dyar, P. U. S. N. M. 75: 23; 8, 1929.

**Culicella subgen**

Freeborn, Cal. Univ. Tech. B. Ent. 3: 414, 1926.

**Culicidae**

Chandler, Animal parasites ed. 3, 455, 462, 1925.

Dyar, Carnegie Inst. Wash. Pub. 387, 602, 1928.

Essig, Insects of Western No. Amer. 1926, 532-540.

Fernald, Applied Ent. ed. 2, 308-309, 1926.

ibMatheson, Handbook of Mosquitoes of No. Amer. 1929, 268 p.

Speer, Hyg. Lab. B. 146, 1927, 36 p.

**Culicidae —Larvae**

Barber, U. S. Pub. H. R. 43, 11-17, 1928.

**Culicoides** *baueri* 297-298, *biguttatus* 283-284, *canithorax* 284-285, *cockerelli* 293, *crepuscularis* 298-299, *diabolicus* 294-295

niHoffman, Am. J. Hygiene 5, 1925.

**Culicoides furens**

iHoffman, Am. J. Hygiene 5, 287-289, 1925.

Painter, United Fruit Co. Med. Dept. R. 15, 248-257, 1926.

**Culicoides guttipennis** 296-297, **haematopotus** 299-300, **hieroglyphicus** 280-281, **loughnani** 282-283, **melleus** 278-279; Hoffman, Am. J. Hygiene 5, 278-279, 1925.

**Culicoides mississippiensis**

niHoffman, Proc. Ent. Soc. Wash. 28, 158, 159, 1926.

**Culicoides multipunctatus**

Hoffman, Am. J. Hygiene 5, 280, 1925.

**Culicoides phlebotomus**

iHoffman, Am. J. Hygiene 5, 285-286, '25.  
Painter, United Fruit Co. Med. Dept. R. 15, 258-261, 1926.

**Culicoides reticulatus**

iChandler, Animal Parasites ed. 3, 474, 1925.

**Culicoides sanguisugus** 281-282, spp.—  
North America 274-301, **stellifer** 295-296, **trinidadiensis** 286-287, **unicolor** 279, **varriipennis** 289-290, **venustus** 290-291, **yukonensis** 291-292.

niHoffman, Am. J. Hygiene 5, 1925.

**Culiseta alaskaensis, impatiens**

Hearle, Nat. Res. Council Canada, R. 17, 54-57, 1926.

**Culiseta incidens**

Hearle, Nat. Res. Council Canada R. 17 48-49, 1926.

Merrill, Cal. R. f. 1927-28, 72, 1929.

**Culiseta inornatus**

Beyer, La. St. Bd. Health Quar. B. 16; 3, 149, 1925.

Hearle, Nat. Res. Council Canada R. 17, 46-47, 1926.

**Cuphocera aurea**

nAldrich, P. U. S. N. M. 69, Art, 22, 25-26, 1926.

**Cupric sulphate**, *see* Spray materials—  
Cupric sulphate

**Curculio auriger**

i-hi Brooks, U. S. D. A. Tech. B. 130, 10-13, 1929.

**Curculio aurivestis** 185, **brevinasus** 185-186, **cervulinus** 174, **crassirostris** 184-185, **emarginatus** 165-166, **exilis** 182, **funicularis** 179-180, **gracilis** 161.

niChittenden, Ent. Americana n. s. 7, 1927.

**Curculio haroldi**

Chittenden, Proc. Ent. Soc. Wash. 30, 69-70, 1928.

nChittenden, Ent. Americana n. s. 7, 181-182, 1927.

niChittenden, Ent. Americana n. s. 7, 155-156, 1927.

**Curculio longinasus** 155, **macrodon** 154, 175-177, **multifasciatus** 159-160, **numenius** 178-179, **pardus** 160-161

niChittenden, Ent. Americana n. s. 7, 1927.

**Curculio proboscideus**

i-hBrooks, U.S.D.A. Tech. B. 130, 6-10, '29.

iPeirson, Me. For. Serv. B. 5, 53, 1927.

**Curculio ruficristatus**

nChittenden, Ent. Americana, n. s. 7, 156, 1927.

**Curculio sp.**

Chittenden, Ent. Americana n. s. 7, 138-147, 1927.

Davis, Hoosier Hort., 7, 110-111, 1925.

S. C. Clemson Coll. Wkly. News Notes 11: 40, 1926.

**Curculio striatus** 187-188, **victoriensis** 165, **wenzeli** 161-162

nChittenden, Ent. Americana n. s. 7, 1927.

\*Curled rosebug, *see* **Emphytus cinctus**

Curlew bug, *see* **Sphenophorus callosus**

\*Currant aphid, *see* **Myzus ribis**

\*Currant borer, *see* **Aegeria tipuliformis**

Currant bud mite, *see* **Eriophyes ribis**

\*Currant fruit fly, *see* **Epochra canadensis**

**Currant insects**

Caesar, Ont. Dept. Agr. B. 318, 20-23, 1926.

\*Currant spanworm, *see* **Itame ribearia**

\*Currant stem girdler *see* **Janus integer**

**Curriea simplex**

n Brues, Proc. Amer. Acad. Arts & Sci. 61, 242-244, 1926.

**Curtipennis oregonensis**

Buckell, Proc. Ent. Soc. B. C. 25; 11-12, 1928.

**Cuterebra baeri**

niShannon & Greene, Zoopathologica, N. Y. 1, 286-290, 1926.

**Cuterebra cuniculi—Rabbits**

iSchwartz & Shook, U. S. F. B. 1568, 11-12, 1928.

**Cuterebra tenebrosa**

Hall, J. Ec. Ent. 18, 331-334, 1925.

†**Cutworms**

iBritton & Anderson, Conn. Tobacco Expt. Sta. B. 6, 81T-83T.

Brooks et al, Fla. B. 204, 518, 1929.

Burr, Neb. R. 41, 18, 1928.

Carter & Ruggles, Minn. Ext. Sp. B. 99, 4-5, 1925.

Compton, Ill. C. 297, 9-10, 1925.

Cook, Ecology 8, 158-173, 1927.

Cook, J. Ec. Ent. 20, 769-782, 1927.

Cooley, Mont. R. 31, 32, 1925.

iCrumb, U. S. D. A. Tech. B. 88, 1-52, 1929.

Curtiss, Iowa R. f. 1926, 39-40, 1926.

iDrake & Decker, Iowa C. 103, 10-11, 1927.

iDrake & Harris, Iowa C. 90 rev., 8-9, 1927.

iDrake & Harris, Iowa Hort. Soc. Tr. 61, 220-223, 1927.

iGardner, Me. Ext. C. 89, 1925, 4p.

iGibson & Twinn, Can. Dept. Agr. B. 112, 65, 1929.

Haseman & Sullivan, Mo. B. 236, 52, 1926.

Headlee, N. J. Hort. Soc. Proc. f. 1926, 28-29, 1926.

Hinds, Bur. Farm. 2; 11, La. Farm. Bur. Federation News Section, July 1927, 12.

Jardine, Oreg. Bien. R. 1924-1926, 104, 1926.

iKelly, Kans. Ext. B. 62, 25-27, 1929.

King, Sci. Agr. 9, 380-383, 1929.

King & Atkinson, J. Ec. Ent. 20, 821-830, 1927.

Langston, Miss. St. Plt. Bd. Quar. B. 8, 1, 7-8, 1928.

Linfield, Mont. R. 34, 93-94, 1927.

Linfield, Mont. R. 35: 34-35, 1929.

Lyle, Miss. St. Pl. Bd. Quar. B. 7: 2, 1-2, 1927.

McHatton et al, Ga. Ext. B. 257, rev. 26, 1926.

MacLeod, Penn. St. Coll. C. 122, 12-13, 1929.

Macoun & Davis, Canada Dept. Agr. B. 80 (n.s.), 46-47, 1927.

Marcovitch, Tenn. R. 40, 32-33, 1928.

il-hMohler, Kans. St. Bd. Agr. Quar. R. 48: 191, 206-207, 1929.

iMote, Oreg. C. 65, 14-15, 1926.

Petch & Armstrong, Quebec Soc. Protec. Plants R. 17, 72, 1925.

Pettit, Mich. Bd. Agr. R. 65, 280-281, 1927.

Pettit, Mich. Spec. B. 168, 15-16, 1927.

Reed, Iowa R. f. 1924, 46, 1925.

Ripley, Penn. Crop Protec. Inst. C. 4; 2, 2, 1925.

Ruggles, Bur. Farm. 4; 11, Minn. Farm. Bur. Sec. July 1929, 19.

iThompson, Oreg. C. 70, 1926, 6 p.

Walton, U. S. Golf Assoc. Green Sec. Bul. 9, 156-162, 1929.

iWatson; Fla. Dept. Agr. Quar. B. 39: 3; 67-70, 1929.

Whitcomb & Waltham, Mass. B. 247, 318-319, 1929.

iWhite, U. S. D. A. Leaf. 2, 1927, 2p.

Wilson, Utah C. 63, 33, 1927.

Yetter, Colo. Ent. C. 47, 14-15, 1925.

Yetter, Colo. Ent. C. 51, 14, 1926.

**Cutworms—Light traps and abundance**

Gorham, Can. Ent. 60, 103-109, 1928.

**Cutworms—Poison**

Burwell, Market Growers J. 39, 687, 1926.

Lyle, Miss. St. Pl. Bd. Quar. B. 7: 2, 3-4, 1927.

Lyle, J. Ec. Ent. 22: 797-798, 1929.

Munro, N. D. B. 217, 80, 1928.

Pettit, Mich. Quar. B. 9, 144-147, 1927.

Pettit, Mich. St. Bd. Agr. R. 66, 341, 1928.

iPettit, Mich. Ent. R. f. 1927, 5.

Roberts, Amer. Farming 19; 8, 4, 1924.

Wedgworth & Anders, Miss. C. 62, 1925, 3p.

Whitcomb & Waltham, Mass. B. 247, 318-319, 1929.

**Cutworms—Rearing**

King & Atkinson, J. Ec. Ent. 20, 821-830, 1927.

**Cyanide, see Insecticides—Cyanide****\*Cyclamen mite, see Tarsonemus pallidus****Cyclocephala signata**

Stahl & Scaramuzza, Trop. Pl. Res.

Found. B. 10, 17, 1929.

- Cyclolecanium**—n. gen., **hyperbaterum**  
niMorrison, Ann. Ent. Soc. Amer. 22, 56-60, 1929.
- Cyclolepteron rockefelleri**  
Boyd, Amer. J. Hyg. Monog. Ser. 5, 31, 1926.
- Cycloneda munda**  
Cole, Fla. St. Hort. Soc. Proc. 39, 156, 1926.
- Cycloneda sanguinea**  
Cole, Fla. Hort. Assoc. Proc. 38, 154, 1925.  
iMiller & Thompson, Fla. Ent. 11, 1-3, 1927.  
Thompson, Fla. Ent. 11, 49-50, 1928.  
Thompson, Fla. Ent. 12, 41, 1928.  
iWatson, Fla. B. 183, 363-364, 1926.
- Cyclopodia pteropus**  
iFerris, Amer. Mus. Novit. 110, 5-6, 1924.
- Cyclopsinema mordens**  
niCobb, J. Parasitol. 14, 43-47, 1927.
- Cydia molesta**, see *Laspeyresia molesta*
- Cydia pomonella**, see *Carpocapsa pomonella*
- Cydnoides albipennis** (Mulatto-bug)  
Knight, Ent. News, 38, 40-42, 1927.
- Cylas formicarius** (Sweet-potato weevil)\*  
iBerly, S. C. C. 32, 17, 1924.  
iBoyden, Fla. St. Pl. Bd. Mo. B. 12, 17-55, 1927.  
Cockerham, Miss. St. Pl. Bd. Quar. B. 7: 4, 3-4, 1928.  
deOng & Knight, Penn. Crop Protec. Inst. B. 4; 9, 15, 1925.
- iilbGonzales, Philip. Agr. 14, 257-281, 1925.  
Gowdy, Jam. Dept. Agr. Ent. C. 11, 1924, 5p.  
Harned, J. Ec. Ent. 22, 402-507, 1929.  
Harned, Miss. St. Plt. Bd. Quar. B. 8, 4, 22, 1929.  
Herrick, Rur. N. Y. 85, 71, 1926.  
Howard, U.S.D.A. Ent. R.f. 1925, 21-22.  
Howard, Fla. Dept. Agr. Quar. B. 39: 3, 237-248, 1929.  
Jacobssen, Cal. Agr. B. 14, 159, 1926.  
McDonald, Tex. Com. Agr. R. 19, 25-26, 1926; R. 20, 28, 1927.  
Newell, Fla. St. Plt. Bd. Quar. B. 9, 72-73, 1925.  
Scholl, Okla. Ext. News 7: 1, 4, 1925.  
Watson, Fla. Dept. Agr. Quar. B. 39: 3, 132-133, 1929.
- Cylas formicarius**—Quarantine  
Bentley, Tenn. Pl. Dis. Control B. 44, 79, 1924; B. 47, 8-9, 1926.  
Jacobssen, Cal. Dept. Agr. Mo. B. 15, 124, 1926.  
Ark. St. Pl. Bd. C. 13, 10-11, 1925.  
Cal. Cult. 65, 21, 1925.
- Cylidrus fasciatus**—Congo Expedition  
Chapin, Amer. Mus. Novit. 151, 1, 1924.
- Cylindera flava**  
Blatchley, Can. Ent. 57, 166, 1925.
- Cylindrocopturus** gen.  
iBöving, Proc. Ent. Soc. Wash. 28, 60-62, 1926.
- Cylindrocopturus longulus**  
Keen, Cal. Dept. Nat. Resources B. 7, 72, 1928.
- Cylindrocopturus medicatus**  
nCarr, Can. Ent. 61, 134-135, 1929.
- Cylindromyia alticola, armata, bakeri**  
niAldrich, P. U. S. N. M. 68: 23, 16-17, 19-20, 22-23, 1926.
- Cylindromyia completa**  
nCurran, Amer. Mus. Nov. 248, 3, 1927.
- Cylindromyia compressa, decora**  
niAldrich, PUSNM 68; 23, 10, 21-22, '26.
- Cylindromyia eronis, insolitum**  
nCurran, Amer. Mus. Nov. 248, 1-4, '27.
- Cylindromyia** gen.  
niAldrich, PUSNM 68: 23, 1926, 27 p.
- Cylindromyia limbata**  
niAldrich, PUSNM 68; 23, 25-26, 1926.
- Cylindromyia nigra**  
niAldrich, P. U. S. N. M. 68: 23, 11, 1926.
- Cylindromyia pedunculata**  
nCurran, Amer. Mus. Nov. 248, 2, 1927.
- Cylindromyia pusilla**  
Aldrich, Brklyn. Ent. Soc. B. 22, 18, '27.
- Cylindromyia uniformis, vulgaris**  
niAldrich, P. U. S. N. M. 68: 23, 20-21, 24-25, 1926.
- Cylindrotermes** gen., **brevipilosus**  
Snyder, P. U. S. N. M. 68, Art 14, 58-59, 1926.
- Cylindrotermes macrognathus**  
nSnyder, Proc. Wash. Ent. Soc. 31, 86-87, 1929.
- Cyllene robiniae** (Hickory borer, Locust borer)\*  
Britton & Zappe, Conn. B. 292, 148-149, 1927.

- Compton & Flint, J. Ec. Ent. 20, 295-298, 1927.  
 Gillette, Colo. Ent. C. 47, 13, 1925.  
 iGreeves-Carpenter, Tree Talk 8: 1, 28-29, 1926.  
 iPeirson, Me. For. Serv. B. 5, 81, 1927.  
 Snyder, Nature Mag. 5, 314, 1925.  
 iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 38-40, 1926.  
 Texas Ext. Serv. Farm News 9; 21, 1, 1926.
- Cymatodera angustata**  
 Flanders, Pan-Pacific Ent. 3, 45, 1926.
- Cymatodera balteata**  
 Engelhardt, Bklyn. Ent. Soc. B. 22, 253, 1927.
- Cymatodera decipiens**  
 Davis, Pan-Pacific Ent. 2, 126, 1926.
- Cymatodera mi.chelli**  
 nChapin, Proc. Biol. Soc. Wash. 40, 144, 1927.  
 nHood, Proc. Biol. Soc. Wash. 40, 144, 1927.
- Cymatodera undulata**  
 Balduf, Trans. Amer. Ent. Soc. 52, 29-37, 1926.
- Cymatophora ribearia**, *see* **Itame ribearia**
- Cymbomorpha atromaculata**  
 nGoding, J. N. Y. Ent. Soc. 37, 11, 1929.
- Cymesses sp.**  
 Weiss, Ent. News 37, 82-83, 1926.
- Cymodusa gracilicornis**, **melanocera**, **plesius**  
 nViereck, Can. Ent. 58, 3-4, 1926.
- Cymodusa spp.—Key**  
 Viereck, Can. Ent. 57, 179-180, 1925.
- Cymodusoides, gracilis, plesius**  
 nViereck, Can. Ent. 57, 74, 1925.
- Cynipidae**  
 Balduf, Can. Ent. 58, 135-143, 1926.  
 iWeld, Proc. U. S. Nat. Mus. 68, Art. 10, 1926, 127 p.  
 Weld, Tr. Ill. Acad. Sci. 20, 142-177, 1927.
- ibPatterson, Biol. B. 54, 201-211, 1928.
- Cynips maculosa, plumbea**  
 nWeld, P. U. S. Nat. Mus. 68, art. 10, 63-66, 1926.
- Cynomyia cadaverina**  
 Felt, N. Y. St. Mus. B. 274, 19, 1928.  
 iTao, Amer. J. Hyg. 7, 751-752, 1928.
- Cynorhina metcalfi, nigripes**  
 niCurran, Kans. Univ. Sci. B. 15, 128-129, 132-133, 1925.
- Cynorhina notata**  
 Curran, Can. Ent. 58, 114, 1926.
- Cynthia atalanta, cardui**  
 Clark, Psyche, 36, 31, 1929.
- Cynthia carye**  
 iGunder, Pan-Pac. Ent. 6: 9, 1929.
- Cynthia spp.—Long Island, N. Y.**  
 Bell, Brklyn Ent. Soc. B. 21, 202, 1926.
- Cyphoderus inaequalis, pinnatus, similis**  
 niFolsom, PUSNM 72; 6, 12-14, '28.
- Cyphomyia abana, regularis, sulcifrons**  
 nCurran, Amer. Mus. Nov. 339, 5-6, 1929.
- Cyphotes insolitus**  
 nGoding, Trans. Amer. Ent. Soc. 52, 106-107, 1926.
- Cypress sphinx**, *see* **Isoparce cupressi**
- Cypress twig borer**, *see* **Phloeosinus cristatus**
- Cyrtacanthacrinae**  
 Adams, S. Dak. R. 41, 18-19, 1929.  
 Wilson, S. Dak. R. 1926-27, 19, 1927.
- Cyrtinus hubbardi, schwarzi**  
 nFisher, PUSNM 68; 22, 36-37, 38-39, '26.
- Cyrtocoryphes, viridiceps**  
 nTimberlake, PUSNM 69; 3, 5-8, '26.
- Cyrtogonatopus clavicornis**  
 niFenton, P.U.S.N.M. 72; 8, 3-4, 1928.
- Cyrtolobus (Atymna) atromarginata**  
 nGoding, Bklyn. Ent. Soc. B. 23, 137, 1928.
- Cyrtolobus pictus**  
 nVan Duzee, Proc. Cal. Acad. Sci. ser. 4, 14, 408-409, 1925.
- Cyrtophora citricola**  
 Wheeler, Psyche 33, 29, 1926.
- Cyrtophorus verrucosus**  
 Champlain, Kirk & Knoll, Ent. News 36, 139, 1925.
- Cyrtorhinus insperatus**  
 nKnight, Brooklyn Ent. Soc. R. 20, 42, 1925.
- Cyrtorhinus mundulus**  
 Pemberton, La. Plant & Sugar Mfg. Co. Ref. Bk. Sugar Ind. of the World 5:5, 44, 1927.  
 Swezey, J. Ec. Ent. 19, 715, 1926.
- Cyrtoxipha gundlachi**  
 Hebard, Trans. Amer. Ent. Soc. 51, 308, 1925.



**Cyrtoxipha ritsemae**

nCaudell, PUSNM 71; 3, 41, 1928.

**Cytilus alternatus**

Fletcher, Can. Ent. 61, 258, 1929.

**Cytodites nudus**, *see* **Cytoleichus nudus****Cytoleichus nudus**—(Air sac mite)

Beach & Freeborn, Cal. Ext. C. 8, 61, 1929.

ISwenk & Mussehl, Neb. C. 37, 30-31, 1928.

**Dacerla**—Key, downesi

Knight, Ent. News 38, 314-315, 1927.

**Dactylolabis supernumeraria**

nAlexander, Ent. News 40, 46, 1929.

**Dactylopius calceolariae**

biMorrison, J. Agr. Res. 31, 485-500, 1925.

**Dactylopius citri**

—Citrus leaves, 7; 3, 2, 1927.

**Dactylopius coccus**

Cockerell, Science 69, 328-329, 1929.

**Dactylopius confusus**

Hamlin, Pan-Pac. Ent. 2, 102-103, 1926.

**Dactylopius tomentosus**

Griffiths & Thompson, U. S. D. A. C. 66, 10, 1929.

Hamlin, Pan-Pac. Ent. 2, 100-102, 1926.

**Dacus ferrugineus** (Mango fruit fly)

—J. Jam. Agr. Soc. 29, 453-454, 1925.

**Dacus oleae** (Olive fruit fly)\*

Burdett, Cal. Fruit News, 73, 1959, 11, 1926.

DeSeabra, Internat. Rev. Sc. & Pract. Agr. n. s. 3, 269-276, 1927.

iGreene, J. Agr. Res. 38, 493-494, 1929.

Isaakides, Internat. Rev. Sci. & Pract. Agr. n. s. 2, 1002-1010, 1924.

Quayle, Cal. C. 315, 12-13, 1929.

Quayle, Cit. Leaves, 9; 8, 2, 1929.

Ihi, Todd, Cal. St. Dept. Agr. Mo. B. 18, 527-533, 1929.

**Dacus tsuneonis**

Clausen, U S D A Tech. B. 15, 11, '27.

**Daetaleus purpureus**

nAldrich, PUSNM 74; 1, 13, 1928.

**Dahlia borer**, *see* **Papaipema nebris nitela****Dahlia insects**

iBolles, Enemies & Pests of dahlias, 1926, 42p.

Timm, Wis. Hort. 19, 330-346, 1929.

**Dalcera consanguinea**

nDyar, J. Wash. Acad. Sci. 17, 550, 1927.

**Dalceridae**

Dyar, Ins. Insc. Mens. 13, 44, 1925.

**Dalmannia hirsuta**

nVan Duzee, Cal. Acad. Sci. Proc. 16; 18, 591-592, 1927.

**Damaeosoma corrugatum**

Miller, Ohio B. 386, 143, 1925.

**Damaeus michaeli**

Miller, Ohio B. 386, 143, 1925.

**Danaus archippus** (Monarch butterfly)\*

Felt, N. Y. St. Mus. B. 274, 98-102, 1928.

Hermes, Pan-Pac. Ent. 2, 52, 1925.

Holland, Carnegie Mag. 3, 105-106, 1929.

Sein, Rev. Agr. Puerto Rico 12, 169-170, 1929.

**Danaus berenice**

Comstock, So. Cal. Acad. Sci. B. 25, 87, 1926.

Coolidge, Trans. Amer. Ent. Soc. 51, 27-33, 1925.

**Danaus menippe**

Bromley, Ent. News 39, 96-97, 1928.

Comstock, So. Cal. Acad. Sci. B. 25, 85, 1926.

**Dark cherry fruit fly**, *see* **Rhagoletis fausta****\*Dark meal worm**, *see* **Tenebrio obscurus****\*Dark-sided cutworm**, *see* **Euxoa messoria****Dasycaapus parvipennis**

nGahan, PUSNM 71; 4, 26-28, 1927.

**Dasylophia bigeminata**

nDyar, Ins. Insc. Mens. 14, 183-184, '27.

**Dasylophia blaisea**

nSchaus, PUSNM 73; 19, 11-12, '28.

**Dasylophia colimata**

nDyar, Ins. Insc. Mens. 13, 2, 1925.

**Dasylophia ineminens**

nDyar, Ins. Insc. Mens. 14, 142-143, 1926.

**Dasymolophilus subnudus**

nAlexander, Pan-Pac. Ent. 3, 77-78, 1926.

**Dasyxantilla abdita** 293-296, arcana 217-

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- Dasyneura gibsoni**  
Detiners, Ohio B. 414, 24-26, 1927.
- Dasyneura leguminicola** (Clover seed midge)\*  
Dalton, N. Y. C. Ext. B. 134, 13, 1926.  
Pettit, Mich. Sp. B. 183, 45-46, 1929.  
ibWehrle, N. Y. C. B. 481, 1929, 35p.
- Dasyneura rhodophaga** (Rose midge)\*  
Lieber, Ind. Dept. Conserv. R. 7, 53, 1925.
- Dasyneura rhois** on poison ivy  
Felt, N. Y. St. Mus. B. 274, 169, 1928.
- Dasyneura vaccinii** (Cranberry midge)  
Crowley, Wash. B. 230, 26, 1929.
- Dasyoptera n. gen., variegata**  
nMetcalf, Psyche 32, 102-103, 1925
- Dasyscapus n. gen., parvipennis**  
nGahan, P. U. S. N. M. 71; 4, 26-28, '28.
- Dasytes irregularis**  
nBlaisdell, Pan-Pac. Ent. 1, 184-185, 1925.
- Dasytes subaeneus**  
nBlaisdell, Can. Ent. 58, 12-13, 1926.
- Datana integerrima** (Walnut caterpillar)\*  
iblBaerg, Ark. B. 224, 9-16, 1928.  
Bratley, Nat. Pecan. Gr. Assoc. Proc. 24, 67-68, 1925.  
Harned, Miss R. 41, 25, 1928.  
liLeiby, N.C. Dept. Agr. B. Feb. 1925, 19-24.
- Nickels, Brady Standard, Brady, Tex. June 26, 1929.
- Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 24, 1926.
- Datana ministra** (Yellow-necked caterpillar)\*  
iBrittain, N. S. Dept. Nat. Resource B. 12, 25-26, 1927.  
iBritton & Zappe, Conn. B. 292, 127, 1927.  
Crosby, et al, N. Y. C. B. 498, 45, 1929.  
iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 24-25, 1926.
- Datana perspicua**  
nBarnes & Benjamin, Can. Ent. 59, 9, 1927.
- Datana spp. larvae**—Reaction to sounds  
Abbott, Psyche 34, 129-133, 1927.
- Date mite**, see *Paratetranychus heteronychus*
- Date palm insects**  
Ryan, Cal. Dept. Agr. Mo. B. 18, 246-247, 1929.  
Stickney, Date Grow. Inst. R. 1, 16-17, 1924.  
Stickney, Pac. Coast Ent. Soc. Proc. 2; 8, 114, 1928-29.
- Date palm scale**, see *Parlatoria blanchardi*
- Dawnarioides, n. gen., musae**  
niDozier, Amer. Mus. Novit. 371, 1929, 2p.
- Dearthrus longulus**  
bMutchler, N. J. Dept. Agr. C. 108, 23, 1927.
- Decarthron complicatum** 223-224, *denticulatum* 224-225, *fractifrons* 217-218, *gracilicorne* 226-227  
niFletcher, Ann. Ent. Soc. Amer. 21, 1928.
- Decarthron lamellipes**  
niFletcher, Trans. Amer. Ent. Soc. 54, 76-77, 1928.
- Decarthron punctatum**  
niFletcher, Ann. Ent. Soc. Amer. 21, 221-222, 1928.
- Decarthron quadrioveatum, rugulosum**  
niFletcher, Ann. Ent. Soc. Amer. 21, 220-223, 1928.
- Decarthron squamosum, tropicum**  
niFletcher, Ann. Ent. Soc. Amer. 54, 218-220, 225-226, 1928.
- Decaturia pectinalis**  
Barnes & Benjamin, Pan-Pac. Ent. 2, 64, 1925.

- Deceia anomala**  
nCurran, Amer. Mus. Nov. 220, 13, 1926.
- Deciana n. gen., aeneoviridis**  
nGirault, Ins. Insc. Mens. 13, 92-93, 1925.
- \*Deer flies, see Chrysops spp.**
- Degeeria apicalis**  
nCurran, Amer. Mus. Nov. 258, 8, 1927.
- Degeeriella deficiens**  
Spencer, Can. Ent. 60, 257, 1928.
- Deinocerites—Key to spp.**  
Dyar, Insec. Ins. Mens. 13, 153, 1925.
- Deinodryinus bilobus, pilosifrons, pilosus, variabilis; niFenton, P.U.S.N.M. 72; 8, 10-12, 1928.**
- Dejeania certina**  
nCurran, Amer. Mus. Nov. 258, 20, 1927.
- Deliaest reticulatus, stramineipes spp.—Key; niMcAtee & Malloch, P.U.S. N.M. 67, Art. 1, 34-36, 1925.**
- Delousing**  
F. K. B. Rur. N. Y. 84, 1160, 1925.  
biPlotz, Med. Dept. U. S. Army, World War 6, 372-413, 1926.
- Delphacidae**  
iDozier, J. N. Y. Ent. Soc. 34, 257-263, 1926.
- Delphacodes (Liburnia) acuministyla 259-260, curvistyla 260-261, indentistyla 261**  
niDozier, J. N. Y. Ent. Soc. 34, 1926.
- Delphax saccharivora (Cane fly)**  
bEarle, Facts about sugar 22, 1018, 1927.
- Deltoccephalus—gen.**  
DeLong, Ohio St. Univ. Studies 2; 13, 1926, 129p.
- Deltoccephalus albivenosus**  
Osborn, Ann. Ent. Soc. Amer. 19, 345, 1926.
- Deltoccephalus cadyi**  
nDeay, Can. Ent. 59, 55, 1927.
- Deltoccephalus chauilla**  
nVan Duzee, Proc. Cal. Acad. Sci. ser. 4, 14, 417, 1925.
- Deltoccephalus comesus**  
niDeLong & Slesman, Ann. Ent. Soc. Amer. 22, 104, 1929.
- Deltoccephalus discessus**  
nVanDuzee, Proc. Cal. Acad. Sci. ser. 4, 14, 416-417, 1925.
- Deltoccephalus flaveolus**  
nOsborn, Ann. Ent. Soc. Amer. 19, 344-345, 1926.
- Deltoccephalus flavicosta**  
Osborn, J. Ec. Ent. 19, 102-103, 1926.  
Osborn, Ref. Bk. Sugar Indus. of World 4, 48, 1926.  
Osborn, Porto Rico Dept. Agr. J. 13, 96, 1929.
- Deltoccephalus inimicus (Inimical leaf-hopper)?**  
Lawson, Ann. Ent. Soc. Amer. 19, 74, 1926.  
Lawson, Kans. Ent. Soc. J. 2, 43, 1929.
- Deltoccephalus lawsoni**  
niDeLong, Trans. Amer. Ent. Soc. 52, 89-90, 1926.
- Deltoccephalus lunatus 347; maculellus 345-346, marginellus 346; nOsborn, Ann. Ent. Soc. Amer. 19, 1926.**
- Deltoccephalus nebulosus**  
iDeLong, Trans. Amer. Ent. Soc. 52, 101-102, 1926.
- Deltoccephalus pellucidus**  
nOsborn, Ann. Ent. Soc. Amer. 19, 346-347, 1926.
- Deltoccephalus perpusillus, plagus, saladurus; inBall & DeLong, J. N. Y. Ent. Soc. 34, 241-242, 1926.**
- Deltoccephalus sonorus**  
Osborn, Porto Rico Dept. Agr. J. 13, 95, 1929.
- Deltoccephalus spp.**  
iDeLong, Ohio J. Sci. 26, 42-48, 1926.
- Deltoccephalus spp.—Review of DeLong**  
Olsen, J. N. Y. Ent. Soc. 34, 265-268, 1926.
- Deltoccephalus trilobatus**  
Osborn, Porto Rico Dept. Agr. J. 13, 95, 1929.
- Deltoccephalus zephyrius**  
nVanDuzee, Proc. Cal. Acad. Sci. ser. 4, 418, 1925.
- Demodex bovis (Cattle follicle mite)\***  
Miller, Ohio B. 386, 148, 1925.
- Demodex canis (Dog follicle mite)\***  
iHall, U. S. D. A. Dept. C. 338, 7-10, '25.  
Hall, Kans. Ent. Soc. J. 2; 76-77, 1929.  
Miller, Ohio B. 386, 148, 1925.  
Price, Ohio Vet. Alumni Q. 17; 1, 29, 1929.  
— Vet. Med. 22, 436, 1927.
- Demodex caprae (Goat follicle mite)\***  
Cram, J. Am. Vet. Med. Assoc. 66 (n. s. 19) 475-80, 1925.

**Demodex folliculorum**

- iChandler, Animal Parasites ed. 3, 347, 1925.
- iHall, U.S.D.A. Dept. C. 338, 7-10, 25.
- iHardenbergh & Sheard, J. Amer. Vet. Med. Assoc. 71, 607-617, 1927.

**Demodex folliculorum suis**

- Stevenson, Ont. Dept. Agr. B. 340, 16, 1928.

**Dendrocoris pini**

- Keen, Cal. Dept. Nat. Resources B. 7, 90, 1928.

**Dendroctonus barberi (Southwestern pine beetle)\***

- Miller & Wales, J. Ec. Ent. 22, 436, 1929.

**Dendroctonus brevicomis (Western pine beetle)\***

- Boone, Timberman 26; 7, 58, 1925.
- Burke, Pacific Coast Ent. Soc. Proc. 2, 57, 1926.
- Caverhill, British Columbia Dept. Lands, Forest Branch, R, f, 1924, E16, 1925.

- iCollingwood, Amer. Forests, 35, 652, '29.
- Craighead, J. Forestry 32, 341-346, 1925.
- Craighead, U.S.D.A. Dept. C. 411, 6, '27.
- Ebeling, Cal. Countryman, 15; 7, 9, 1929.
- iEvenden, Timberman, 27; 4, 178, 1926.
- iKeen, Cal. Dept. Nat. Resources B. 7, 31-33, 1928.

- Keen, Pan-Pac. Ent. 5, 108, 1929.
- Miller, J. For. 24, 897-910, 1926.
- iMiller & Patterson, J. Agr. Res. 34, 597-613, 1927.

- bNelson & Beal, J. Amer. Phyto. Soc. 19, 1101, 1929.
- Snyder, Nat. Mag. 5, 311, 1925.

**Dendroctonus brevicomis and slash**

- Patterson, U. S. D. A. Tech. B. 3, 1-9, 1927.

**Dendroctonus engelmanni (Engelmann spruce beetle)\***

- Craighead, U.S.D.A. Dept. C. 411, 10, '27.

**Dendroctonus frontalis (Southern pine beetle)\***

- Craighead, J. For. 23, 349-351, 1925.
- Craighead, U.S.D.A. Dept. C. 411, 9, '27.
- Craighead & St. George, U. S. Forest Worker 4; 2, 11, 1928.

- bNelson & Beal, Phytopathology, 19, 1101, 1929.

- iSchoene, Va. St. Crop Pest Com. Quar. B. 7; 4, 23, 1926.

- iSt. George, Amer. Lumberman No. 2607, 50-51, 1925.

- St. George & Beal, S. Lumber, J. 33; 17, 37, 1929.

- ilSt. George & Beal, U. S. F. B. 1586, 1-8, 1929.

**Dendroctonus jeffreyi (Jeffrey-pine beetle)\***

- Craighead, U. S. D. A. Dept. C. 411, 8, 1927.

- Keen, Cal. Dept. Nat. Resources B. 7, 37, 1928.

**Dendroctonus monticolae (Mountain pine beetle)\***

- Boone, Timberman 26; 7, 58, 1925.
- iCaverhill, British Columbia Dept. Lands Forest Br. R, f, 1924, E 16-E 18, 1925.

- Craighead, J. Forestry 23, 348-349, 1925.
- Craighead, U.S.D.A. Dept. C. 411, 5, '27.
- iEvenden, Amer. For. 31, 593-595, 1925.
- iEvenden, Timberman, 26; 11, 63, 1925.
- iKeen, Cal. Dept. Nat. Resources Div. For. B. 7, 33-36, 1928.

**Dendroctonus piceaperda (Eastern spruce beetle)\***

- Peirson, Me. For. Serv. B. 5, 118-120, 1927.

- iSwaine, Can. Dept. Agr. Pam. n. s. 48, 1924. 19 p.

- iWatson, Sci. Agr. 8, 613-635, 1928.

**Dendroctonus ponderosae (Black Hills beetle)\***

- Craighead, J. Forestry 23, 347-348, 1925.
- Craighead, U. S. D. A. Dept. C. 411, 7-8, 1927.

- bNelson & Beal, Phytopathology, 19, 1101, 1929.

**Dendroctonus pseudotsugae (Douglas-fir beetle)\***

- Caverhill, Brit. Columbia Dept. Lands. Forest Br. R. f. 1924, E17, 1925.
- Craighead, U.S.D.A. Dept. C. 411, 11, '27.

**Dendroctonus simplex (Eastern larch beetle)\***

- Peirson, Me. For. Serv. B. 5, 79, 1927.
- Simpson, Can. Ent. 61, 274-279, 1929.

**Dendroctonus sp.—Flavor in butter boxes**

- Timberman 27; 5, 103, 1926.

**Dendroctonus spp.**

Craighead, J. For. 23, 340-354, 1925.  
 bCraighead, Jour. For. 26; 7, 886-887, 1928.

Preston, J. For. 23, 49-61, 1925.

Swaine, Can. Dept. Agr. Pam. 97, 11, 1928.

**Dendroctonus terebrans (Black turpentine beetle)\***

bNelson & Beal, Phytopathology, 19, 1102, 1929.

**Dendroctonus valens (Red turpentine beetle)\***

Craighead, U. S. D. A. Dept. C. 411, 4, 1927.

iKeen, Cal. Dept. Nat. Resources B. 7, 37-41, 1928.

iPeirson, Me. For. Serv. B. 5, 108, 121, 1927.

**Dendroctonus valens & slash disposal**  
 Craighead, U. S. D. A. Dept. C. 411, 4-5, 1927.**Dendroides canadensis**

Payne, Ann. Ent. Soc. Amer. 22, 615-616, 1929.

**Dendroides marginata**

nVan Dyke, Bklyn. Ent. Soc. B. 23, 259-260, 1928.

**Dendromyia intonca**

Dyar, Ins., Insc. Mens. 14, 43-44, 1926.

**Dendryphantes aestivalis**

Weese, Ill. Biol. Mon. 9; 4, 19, 1924.

**Dengue fever**

ibSiler, Hall & Hitchens, Philippine J. Sci. 29, 1-304, 1926.

Siler, Hall & Hitchens, Philippine Bur. Sci. Monog. 20, 1927. 476 p.

— Amer. J. Pub. Health, 16, 717-718, 1926.

— La. Bd. Health Quar. B. 16, 81-82, 1925.

**Deodar weevil see, *Pissodes deodarae*****Depluming mite, see *Cnemidocoptes gallinae*****Depressaria artemisiella**

nMcDunnough, Can. Ent. 59, 271, 1927.

**Depressaria heracliana (Parsnip webworm)\***

iBrittain, N. S. Dept. Nat. Resource B. 12, 86-87, 1927.

iCaesar, Ont. Dept. of Agr. B. 325, 27, 1927.

Downes, Proc. Ent. Soc. B. C. 25; 17, 1928.

iDrake & Decker, Iowa C. 103, 16, 1927.

iEllis, J. Agr. Res. 30, 789-790, 1925.

iPettit, Mich. Ent. R. f. 1927, 7-8.

iPettit, Mich. St. Bd. Agr. R. 66, 343-344, 1927.

**Deraeocoris balli, piceicola triannulipes**  
 nKnight, Bklyn. Ent. Soc. B. 22, 136-139, 1927.**Derancistrus tasleii**

Champlain, Kirk & Knoll, Ent. News 36, 105, 1925.

**Dermacentor albipictus (Elk-tick)**

Bruce, Proc. Ent. Soc. B. C. 24, 27, '27.

**Dermacentor andersoni, see *Dermacentor venustus*****Dermacentor occidentalis (Pacific coast tick)**

Chandler, Animal Parasites, ed. 3, 366-367, 1925.

Parker, U. S. Pub. Health R. 44, 1299-1300, 1929.

**Dermacentor variabilis (American dog tick)\***

iHall, U. S. D. A. Dept. C. 338, 11-13, 1925.

Larrouse, et al., Science, 67, 351-353, '28.

Miller, Ohio B. 386, 129-130, 1925.

biZebrowski, Trans. Amer. Ent. Soc. 51, 331-369, 1925.

**Dermacentor venustus (Wood tick; Spotted fever tick)**

Barrows, Ann. Ent. Soc. Amer. 18, 502, 1925.

iBecker, J. Infec. Diseases 39, 81-88, 1926.

biBruce, J. Am. Vet. Med. Assoc. 68, 147-161, 1925.

Bruce, Proc. Ent. Soc. B. C. 24, 27, 1927.

Chandler, Animal Parasites, Ed. 3, 188-192, 361, 1925.

Cooley, Mont. St. Bd. Ent. Bien. R. 6, 6-28, 1926.

Cooley, Amer. J. Pub. Health 18, 993-996, 1928.

Cooley, Farm Fireside, 53; 9, 12-13, 48-49, 1929.

Cooley & Kohls, Science 67, 656, 1928.

Dowling, La. St. Bd. Health Quar. B. 16; 1, 7-9, 1925.

- Felt, N. Y. St. Mus. B. 274, 53-55, '28.  
 Fernald, Applied Ent. ed. 2, 381, 1926.  
 iFrancis, U. S. Pub. H. R. 42, 2763-2772, 1927.  
 McKinley, P. R. Rev. Pub. Health 4; 11, 554-557, 1929.  
 McKinley, P. R. Rev. Pub. Health R. 4; 12, 608-609.  
 biNoguchi, J. Exper. Med. 43, 515-532, 1926.  
 iNoguchi, J. Exper. Med. 44; 1, 1-10, 1926.  
 bParker, Mont. St. Bd. Ent. Bien. R. 7, 39-62, 1928.  
 Parker, J. Am. Med. Assoc. 93, 1229, 1929.  
 Parker & Butler, Mont. St. Bd. Ent. Bien. R. 7, 77-85, 1928.  
 bParker & Dade, Amer. Vet. Med. Assoc. J. 75, 173-191, 1929.  
 Parker & Spencer, U. S. Pub. Health R. 41, 461-469, 1926.  
 Rawson, J. Am. Vet. Med. Assoc. 74; 7, 1029, 1929.  
 Rawson, J. Am. Vet. Med. Assoc. 74; 7, 1033, 1929.  
 Riley, Nations Health 8, 177, 1926.  
 iSpencer, Hygeia 4, 461-463, 1926.  
 iSpencer & Parker, U. S. Pub. H. R. 40, 2159-2167, 1925.  
**Dermacentor venustus & Oroya fever**  
 ibNoguchi J. Exp. Med. 44, 729-734, 1926.  
**Dermacentor venustus & Rickettsia**  
 ibNoguchi, J. Exp. Med. 44, 515-532, 1926.  
**Dermacentor venustus & Tularemia**  
 bSimpson, U. S. Naval Med. B. 26; 4, 827, 1928.  
 Parker & Spencer, U. S. Pub. Health R. 41, 1403-1407, 1926.  
**Dermacentor venustus & Tick paralysis**  
 Marsh, Amer. Vet. Med. Assoc. J. 74, 733, 1929.  
**Dermacentor venustus—Filter passing virus**  
 Noguchi, J. Exp. Med. 44, 1-10, 1926.  
**Dermanyssidae**  
 Ewing, Proc. Ent. Soc. Wash. 31, 126-130, 1928.  
**Dermanyssus avium (Bird tick)**  
 iBrittain, N. S. Dept. Nat. Resource B. 12, 116-117, 1927.  
 Gibson & Twinn, Can. Dept. Agr. B. 112, 70, 1929.  
**Dermanyssus gallinae (Chicken mite)\***  
 Ainslie, Can. Ent. 61, 39-40, 1929.  
 Alder, Utah C. 72, 15-16, 1928.  
 iBeach & Freeborn, Cal. Ext. C. 8, 59-61, 1929.  
 Beaudette, N. J. Hints to Poultryman, 17; 1, 3-4, 1929.  
 Billings, Wallace's Farmer 54; 22, 826, 1929.  
 Bushnell & Brandly, Kans. Manhat. B. 247, 79-80, 1929.  
 Chandler, Animal parasites ed. 3, 341, 1925.  
 Clancy, Amer. Poultry J. 55; 5, 688-689, 1924.  
 Cleveland, Ind. Ext. B. 109, rev. 5, 1925.  
 Embleton, Ariz. Cattlem. & Farm. 12; 39, 2, 1929.  
 Goodeari, Dak. Farm. 49, 819, 1929.  
 iHavins, Dixie Poultry J. 8; 8, 5, 1929.  
 Hayes, Hoard's Dairym. 71, 764, 1926.  
 iHerrick, N. Y. Cornell Ext. B. 115, 6, 1925.  
 iHiscock, Amer. Agr. 117, 627, 1926.  
 Lansden, Fla. Grow. 3; 16, 23, 1925.  
 Lewis, Country Gentl. 92; 7, 55, '27.  
 M. B. D., Rur. N. Y., 88, 1020, 1929.  
 Miller, Ohio B. 386, 132-133, 1925.  
 Purvis, Breeder's Gaz. 90, 156-157, 1926.  
 Smith, Farmer, St. Paul, 45, 1102, 1927.  
 iSwenke & Mussehl, Neb. C. 37, 20-22, 1928.  
 T. O., Farm. Advoc. 60, 1520, 1925.  
 Vernon, Stouder & Cochran, Iowa Ext. B. 155, 7-8, 1929.  
 W. H. S., Success Farm. 23; 5, 67, 1925.  
 Will Co., Prairie Farm. 101, 1115, 1929.  
**Dermaptora**  
 Buckell, B. C. Ent. Soc. Proc. 26, 9-13, 1929.  
 Davis, J. N. Y. Ent. Soc. 34, 27-41, 1926.  
 Fox, N. J. Dept. Agr. C. 138, 1928. 58 p.  
 iHebard, Trans. Amer. Ent. Soc. 51, 265-310, 1925.  
 Hebard, Phila. Acad. Nat. Sci. Proc. 76, 109-248, 1925.

**Dermaptera** *Cont'd*

iHebard, Trans. Amer. Ent. Soc. 52, 275-354, 1926.

iHebard, Phila. Acad. Nat. Sci. Proc. 79, 23-49, 1928.

Hebard, Trans. Amer. Ent. Soc. 55, 335-343, 389-399, 1929.

Tanner, Pan-Pac. Ent. 3, 178-179, 1927.

**Dermaptera—Barbados—Antigua expedition**

bBuckell, B. C. Ent. Soc. Proc. 26, 26-27, 1929.

Buckell, B. C. Ent. Soc. Proc. 26, 9-13, 1929.

Caudell, Iowa Univ. Stud. Nat. Hist. 10; 1, 19, 1922.

**Dermaptera—Bibliography.**

Buckell, B. C. Ent. Soc. Proc. 26, 26-27, 1929.

**Dermatitis & Ancylostoma caninum**

White & Dove, Arch. Dermatol & Syph. 20, 191-200, 1929.

**Dermatobia hominis (Human botfly)**

Chandler, Animal Parasites ed. 3, 513, 1925.

Dunn, Amer. Jr. Trop. Med. 9, 503, 1929.

Shannon, J. Wash. Acad. Sci. 15, 137-138, 1925.

**Dermatobia sp. on dog**

Townsend, Ecology 7; 1, 31, 1926.

**Dermatophilus penetrans, see Tunga penetrans**

**Dermestes cadaverinus** 7, **caninus** 9, **carnivorus** 7, **frischii** 7-8; ibMutchler & Weiss, N. J. Dept. Agr. C. 108, 1927.

**Dermestes lardarius (Larder beetle)\***  
iBrittain, N. S. Dept. Nat. Resource B. 12, 119-120, 1927.

Cooley, Mont. B. 170, 27, 1925.

iGibson & Twinn, Can. Dept. Agr. B. 112, 25-26, 1929.

iGuyton, Pa. Dept. Agr. Gen. B. 432, 7-8, 1927.

Maheux, Quebec Soc. Protec. Pl. R. 18, 106, 1926.

biMutchler & Weiss, N. J. Dept. Agr. C. 108, 8, 1927.

Strickland, Can. Ent. 61, 238, 1929.

**Dermestes nidum, pulcher**

bMutchler & Weiss, N. J. Dept. Agr. C. 108, 8, 9, 1927.

**Dermestes spp.—Paradichlorobenzene**

Gunder, Ent. News 39, 318, 1928.

**Dermestes—Species—key**

bMutchler & Weiss, N. J. Dept. Agr. C. 108, 20-22, 1927.

**Dermestes vulpinus (Hide beetle)\***

bMutchler & Weiss, N. J. Dept. Agr. C. 108, 9-10, 1927.

Peet & Grady, Soap 4; 2, 99, 117, 1928.

bSnyder, Nature Mag. 8, 278, 1926.

**Dermestidae—Key**

bMutchler & Weiss, N. J. Dept. Agr. C. 108, 16-18, 1927.

**Dermestidae & Pollenia rudis**

Spencer, Can. Ent. 60, 283, 1928.

**Deromyia angustipennis**

Parks & Alex, Tex. C. 35, 16, 1925.

**Deromyia bellardii, bimaculata**

nBromley, Psyche 36, 45-46, 1929.

**Deromyia nigricauda**

nCurran, Trans. Amer. Ent. Soc. 51, 259-260, 1925.

**Derris, see Insecticides—Derris****Desert corn flea beetle, see Chaetocnema ectypa****Desiantha nociva**

Bartlett, Cal. Dept. Agr. Sp. Pub. 85, 96-97, 1928.

Jacobsen, Cal. Dept. Agr. Mo. B. 16, 638, 1927.

— Nat. Cannery Assoc. B. 103-A, 35, 1928.

**Desmia funeralis (Grape leaf folder)\***

Bonnet, Cal. Grape Grow. 9; 2, 6, 1928.

H. J., Cal. Cult. 71, 551, 1928.

**Desmia pantalalis**

nDyar, Pan-Pac. Ent. 4, 9, 1927.

**Desmocerus auripennis**

iEssig, Insects of Western No. Amer. 1926, 454.

**Desmocerus cribripennis (Shagreened bug)**

Hardy & Preece, Pan. Pac. Ent. 4; 2, 63-64, 1927.

iHardy, B. C. Provin. Mus. R. f. 1927, E 16, 1927.

**Despoina submutica**

iKarny, Ann. Ent. Soc. Amer. 22, 193-194, 1929.

- Destructor scale**, *see* *Aspidiotus destructor*
- Desvoidea obturbans**  
Chandler, Animal Parasites, ed. 3, 183, 1925.
- Deuterophlebiidae**  
Muttkowski, Bklyn. Ent. Soc. B. 22, 245-249, 1927.
- Deuterophlebia**  
Muttkowski, N. Y. St. Col. Forestry B. 2, 196-198, 1929.
- Deutominettia approximata, bimaculata**  
nMalloch, P. U. S. N. M. 73; 23, 3, 1928.
- \*Devastating grasshopper**, *see* *Melanoplus devastator*
- Dexia caldwelli**  
nCurran, Amer. Mus. Nov. 245, 8-9, 1927.
- Dexia ventralis**  
nAldrich, PUSNM 66: 18, 33-35, 1925.  
iClausen et al, USDA B. 1429, 26-31, '27.  
Gardner, J. Econ. Ent. 22, 842, 1929.  
iKing, U. S. D. A. Y B 1927, 406, 1928.  
King, Allen & Halloch, J. Ec. Ent. 20, 368, 1927.  
Smith, N. J. Dept. Agr. R. 12, 96, 1927.
- Dexiosoma vibrissatum**  
Aldrich, PUSNM 69; 13, 7-8, 1926.
- Dexippus morosus—Phototropism**  
Yagi, J. Gen. Physiology, 11, 297-300, 1928.
- Dexodes nana**  
nCurran, Ann. Ent. Soc. Amer. 22, 506-507, 1929.
- Dexodes—Species table**  
Curran, Can. Ent. 59, 20, 1927.
- Dexodes valida, xylota**  
nCurran, Can. Ent. 59, 21-23, 1927.
- Diabrotica balteata (Banded cucumber beetle)\***  
Brisley, Trans. Amer. Ent. Soc. 51, 174, 1925.  
Morrill, Cal. Dept. Agr. Sp. Pub. 73, 72, 1927.  
Robinson, Ala. R. 35, 14, 1924; R. 36, 13-14, 1925; R. 38, 23, 1927.
- Diabrotica duodecimpunctata (Spotted cucumber beetle)\***  
Arant, Ala. R. 38, 24, 1927.  
ibArant, Ala. Poly. B. 230, 1929 46 p.  
Bradley, La. R. f. 1924, 23-30, 1925.  
Brisley, Trans. Amer. Ent. Soc. 51, 173, 1925.  
Compton, Canning Trade 48; 51, 12, '25.
- Compton, Ill. C. 297, 28, 1925.  
Cory, Md. Agr. Soc. R. 8, 379, 1924.  
Davis, Ind. Farm. Guide 85; 28, 807, 1929.  
Drake, The Farmer, St. Paul 43, 786, 1925.  
iDrake & Harris, Iowa C. 90 rev., 4-6, '27.  
iFernald, Applied Ent. ed. 2, 120-121, '26.  
iHuckett, J. Ec. Ent. 22, 405-411, 1929.  
Huckett, N. Y. Gen. C. 113, 1-8, 1929.  
bHuckett, N. Y. Gen. Tech. B. 148, 1929.  
82 p.  
Ingram, U. S. F. B. 1543, 13, 1927.  
Isely, Ark. B. 231, 47-48, 1928.  
iIsely, Ark. B. 232, 1929, 31 p.  
Lieber, Ind. Dept. Conserv. R. 6, 44, 1925.  
Marcovitch, Tenn. R. 40, 33, 1927.  
Pettit, Mich. Ent. R. f. 1926, 5-6.  
Pettit, Mich. St. Bd. Agr. R. 65, 266, 1926.  
iSnapp, U. S. F. B. 1557, 36-37, 1928.  
biSweetman, J. Ec. Ent. 19, 484-490, 1926.  
Watson, Fla. Dept. Agr. Quar. B. 39: 3; 95, 1929.  
Williams, Ohio B. 417, 45, 1928.
- Diabrotica filicornis**  
Brisley, Trans. Amer. Ent. Soc. 51, 174, 1925.
- Diabrotica longicornis (Corn root worm)\***  
Compton, Canning Trade 48; 51, 10, 1925.  
Compton, Ill. C. 297, 24-25, 1925.  
Fernald, Applied Ent. ed. 2, 121-122, 1926.  
Forbes, Ill. Nat. Hist. Surv. B. 16, 452, 1927.  
Haseman, Mo. Farm. 21, 319, 1929.  
Metcalfe, N. C. R. 50, 108-109, 1927.  
Mohler, Kans. St. Bd. Agr. Quar. R. 48: 191, 202-203, 1929.  
Pettit, Mich. R. 38, 221, 1925.  
Pettit, Mich. Bd. Agr. R. 64, 221, 1926.
- Diabrotica soror (Western 12-spotted cucumber beetle)\***  
Ingram, U. S. F. B. 1543, 15, 1928.  
Merrill, Cal. R. f. 1927-28, 76, 1929.  
Mote, Oreg. C. 65, 28-29, 1926.  
Urbahns, Cal. Agr. B. 14, 177, 1926.
- Diabrotica spp.**  
iBoving, Proc. Ent. Soc. Wash. 29, 193-205, 1927.  
Garcia, New Mex. R. 36, 19, 1925.



**Diabrotica spp. Cont'd**

- McHatton, Firor & Keener, Ga. Ext. B. 257 rev., 23-24, 1926.
- Diabrotica tricineta**  
Brisley, Trans. Amer. Ent. Soc. 51, 174, 1925.
- Diabrotica virgifera** (Colorado corn root worm)  
Brisley, Trans. Amer. Ent. Soc. 51, 174, 1925.  
iHoerner, Colo. Ent. C. 47, 17-18, 1925.
- †**Diabrotica vittata** (Striped cucumber beetle)\*  
iBeattie, U. S. F. B. 1563, 13-14, 1928.  
Brisley, Trans. Amer. Ent. Soc. 51, 173, 1925.  
iBrittain, N. S. Dept. Nat. Resource B. 12, 84, 1927.  
iCaesar, Ont. Dept. Agr. B. 325, 41-43, 1927.  
Caesar, Ont. Veg. Grow. Assoc. R. 22, 17, 1927.  
Christie, Ind. R. 40, 38, 1928.  
iCompton, Ill. C. 297, 32-24, 1925.  
Compton, Ill. Hort. Soc. Trans. 59, 309-311, 1926.  
Compton, Ill. Hort. Soc. Tr. 60, 413-415, 1926.  
Cooper, Ky. R. 39, 20, 1926-1927.  
Crosby, Ent. News, 40, 328, 1929.  
iDrake and Harris, Iowa C. 90 rev., 2-4, 1926.  
iDrake & Sweetman, Iowa St. Hort. Soc. Trans. 59, 236-240, 1925.  
Durham, J. Ec. Ent. 21, 436, 1928.  
iFord, S. Dak. Ext. C. 235, 8, 1926.  
Gillette, Colo. Ent. C. 47, 14, 1925.  
iGray, Ark. B. 221, 34-35, 1927.  
Haseman, Sullivan & Jones, Mo. B. 236, 52, 1926.  
Headlee, N. J. Hort. Soc. Proc. f. 1926, 30-31.  
biHouser & Balduf, Ohio B. 388, 241-364, 1925.  
Huckett, N. Y. Geneva C. 113, 1-8, 1929.  
bHuckett, N. Y. (Geneva) Tech. B. 148, 1929, 82 p.  
biIsely, Ark. B. 216, 1927, 35 p.  
iJewett, Ky. C. 37, 19-34, 1927.  
iLadd, N. Y. C. B. 35, 21-22, 1929.  
iLowry & Watson, N. H. Ext. B. 159, 1929, 2 p.  
MacLeod, Penn. St. Col. C. 122, 27-28, 1929.  
iMarcovitch, Tenn. C. 1, 1926, 2 p.  
Marcovitch & Stanley, Tenn. B. 140, 18-19, 1929.  
iMarshall, Ont. Ent. Soc. R. 56, 80-83, 1926.  
McHatton, Firor & Keener, Ga. Ext. B. 257, rev., 25, 1926.  
Munford, Ill. R. 38, 168, 1925.  
Pettit, Mich. Ent. R. t. 1926, 5-6.  
Pettit, Mich. St. Bd. Agr. R. 65, 266, 1926.  
iPettit, Mich. Sp. B. 183, 30, 1929.  
Reed, Iowa R. f. 1924, 45, 1925.  
iSpencer & Henderson, Va. Truck B. 52, 399-400, 1925.  
biSweetman, J. Econ. Ent. 18, 795-807, 1925.  
Thatcher, N. Y. Gen. R. 43, 42-43, 1924.  
Thatcher, N. Y. Gen. R. 44, 38-40, 1925.  
Thatcher, N. Y. Gen. R. 45, 42, 1926.  
Thatcher, N. Y. Gen. R. 46, 47-48, '27.  
iWatson, Fla. B. 183, 410-411, 1926.  
iWatson, Fla. Dept. Agr. Quar. B. 39; 104-105, 1929.  
Weber, Fla. B. 208, 27-28, 1929.  
Weese, Ill. Biol. Mon. 9; 4, 15, 1924.  
iWhite, U. S. F. B. 1468, 22-24, 1926.
- Diabrotica vittata and cucumber mosaic**  
Doolittle & Walker, J. Agr. Res. 31, 5, 1925.
- Diabrotica vittata and melon blight.**  
Ernst, Calif. Cult. 68, 220, 1927.  
Tehon, Ill. Nat. Hist. Surv. B. 17, 331-339, 1928.
- Diabrotica vittata—Hibernation**  
Balduf, Ent. News, 40, 260-262, 1929.  
Gehm, J. Ec. Ent. 22, 603, 1929.
- Diacrisia virginica** (Yellow woolly bear)\*  
Hearle, Ont. Ent. Soc. R. 59, 36, 1929.  
iJohannsen, J. Morph. & Physiol. 48: 2, 493-540, 1929.
- Diadasia lutzii—Wyoming**  
nCockerell, Amer. Mus. Novit. 113, 2-3, 1924.
- Diadegma spp.—key**  
Viereck, Can. Ent. 57; 226-227, 1925.
- Dialeurodes citri** (Citrus whitefly)\*  
Ball, Facts about Sugar 21, 711, 1926.  
Berger, Citrus Indus. 6; 4, 20, 1925.  
Berger, Fla. Grow. 37; 987, 18, 1929.

- Brooks, et al. Fla. Ext. R. f. 1928, 48-49.  
 DeBusk, Fla. Ext. R. f. 1927, 49-50.  
 Delcurto, Halstead & Halstead, Texas Dept. Agr. B. 79, 96, 1925.  
 iBessig, Insects of Western No. Amer. 1926, 324.  
 Fox, Citrus Industry 3; 9, 14, 1922.  
 Hampton, Citrus Indus. 6; 11, 18, 1925.  
 Hecke, Cal. Citrog. 12; 1, 28-29, 1926.  
 iHecke, Cal. Citrog. 12, 271, 1927.  
 iHinds, La. Ext. C. 122, 4-7, 1929.  
 iHume, Cultivation of Citrus Fruits, 1926, 446-449, 1926.  
 Jacobssen, Cal. Agr. B. 14, 159, 1926.  
 Jacobssen, Cal. Agr. B. 14, 170-171, '26.  
 Jacobssen, Cal. Dept. Agr. Mo. B. 15: 114-115, 1926.  
 Jacobsen, Cal. Dept. Agr. Mo. B. 16: 650-651, 1927.  
 Jacobsen, Cal. Dept. Agr. Mo. B. 17, 653, 1928.  
 Jacobssen, Cal. Cit. 13, 426, 1928.  
 Jacobssen, Cal. Dept. Agr. Mo. B. 17, 670, 672-676, 1928.  
 Jacobssen, Cal. Dept. Agr. Sp. Pub. 85, 59-60, 1928.  
 Lenfest, Citrus Industry, 7; 6, 11, 1926.  
 iMackie, Cal. Cit. 12, 308, 1927.  
 Mackie, Cal. Dept. Agr. Mo. B. 16: 677-686, 1927.  
 Mackie et al, Cal. Cit. 12, 271, 1927.  
 Niles, Citrus Industry 4; 8, 7, 1923.  
 O'Kane, Cal. Dept. Agr. Mo. B. 18, 436, 1929.  
 Watson, Fla. Grower, 32; 12, 17, 1925.  
 Watson, Fla. Agr. News Service 12: 3, 1, 1926.  
 Watson, Fla. B. 183, 337-341, 1926.  
 Watson, Citrus Indus. 7; 8, 19, 1926.  
 Whittington, Citrus Indus. 6; 6, 6, '25.  
 iWoglum, Cal. Cit. 12, 18-19, 1926.  
 Woglum, Cal. Cit. 12, 99, 1927.  
 Wood, Cal. Cult. 70, 222, 1928.
- Dialeurodes citri—Parasites**  
 Watson, Citrus. Indust. 7:8, 19, 1926.
- Dialeurodes citrifolii (Cloudy-winged whitefly)\***  
 Hume, Cultivation of Citrus Fruits, 1926, 449-450.  
 iWatson, Fla. B. 183, 341-343, 1926.
- Dialeurodes (Dialeurolonga) elongata**  
 iDozier, J. Agr. Res. 36, 1001-1002, '28.
- Dialeurodes nubifera**  
 Berger, Cit. Indus. 6: 4, 20, 1925.
- Dialeurolonga, n. subgen.**  
 inDozier, J. Agr. Res. 36, 1001-1002, 1928.
- Dialytellus**  
 nBrown, Can. Ent. 61: 211-212, 1929.
- Dialytes criddlei**  
 nBrown, Can. Ent. 61: 210-211, 1929.
- Diamesa (Psilodiamesa) lurida**  
 Johannsen, Brklyn Ent. Soc. B. 21, 205, 1926.  
 iSaunders, Can. Ent. 60, 261, 1928.
- \*Diamond-back moth, see Plutella maculipennis.**
- Dianous nitidulus—Habits**  
 Darlington, Psyche, 36, 386, 1929.
- Dianthidium banksi**  
 nCockerell, Psyche 35, 175, 1928.
- Dianthidium callorhinum, chrysorum**  
 Cockerell, PUSNM 71; 12, 6-8, 1928.  
 nCockerell, PUSNM 71; 12, 7-8, 1928.
- Dianthidium floridiense**  
 nSchwarz, Amer. Mus. Nov. 226, 5-7, 1926.
- Dianthidium holmbergi, manni, mapirensenitidipes;** nCockerell, PUSNM 71: 12, 4-6, 1927.
- Dianthidium pudicum**  
 bHicks, Psyche 34, 193-198, 1927.
- Dianthidium quadrimaculatum**  
 nCockerell, PUSNM 71; 12, 8-9, 1928.
- Dianthidium sayi**  
 iCuster, Ent. News 39, 124, 1928.  
 iCuster & Hicks, Biol. B. 52, 268-277, 1927.  
 Hicks, Amer. Nat. 60, 199-200, 1926.
- Dianthidium spp.**  
 Schwarz, Am. Mus. Nov. 226, 1926, 25 p.
- Dianthidium undecimale**  
 nCockerell, PUSNM 71; 12, 7, 1928.
- Diaperis californica**  
 Blaisdell, Pan-Pac. Ent. 6, 60-62, '29.
- Diapetimorpha acadia 35-36, alabama 34-35, cinctiventris 32, confederata 34, rufigaster 33-34**  
 nCushman, P. U. S. N. M. 74; 16, 1929.

**Diaphania hyalinata (Melon worm)\***

Edwards, J. Jam. Agr. Soc. 33: 10, 361, 1929.

Pepper, S. C. Clemson Col. Weekly News Notes 14; 45, 1926.

Watson, Fla. Dept. Agr. Quar. B. 39: 3; 103-104, 1929.

**Diaphania nitidalis (Pickle worm)\***

Spencer & Henderson, Va. Truck B. 5, 412, 1925.

Watson, Fla. Dept. Agr. Quar. B. 39: 3; 101-103, 1929.

**Diapheromera femorata (Walkingstick)\***

Fernald, Applied Ent. ed. 2, 81, 1926.

iPeirson, Me. For. Serv. B. 5, 33-34, 1927.

Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 33, 1926.

**Diaphnidia heidemanni**

nKnight, Proc. Biol. Soc. Wash. 40, 13-14, 1927.

**Diaphnidia pellucida**

iStear, J. Ec. Ent. 18, 636, 1925.

**Diaphorus curvispina, perplexus, varipes**

iVan Duzee, PUSNM 74; 10, 17-20, '28.

**Diaprepes abbreviatus (Sugarcane root borer)**

Barrow, J. Dept. Agr. Porto Rico 8: 2, 22-26, 1924.

Barrow, Planter 75, 49, 1925.

bEarle, Facts About Sugar 22, 1011-1012, 1927.

Osuna, Porto Rico Insul. R. f. 1927-8, 49, 1929.

**Diaprepes spengleri, see Diaprepes abbreviatus****Diapria conica**

Fouts, Proc. Ent. Soc. Wash. 29, 166-167, 1927.

**Diarthronomyia hypogaea (Chrysanthemum gall midge)\***

Felt, J. Ec. Ent. 20, 65, 1927.

List & Langford, J. Ec. Ent. 19, 871, 1926.

M., W., Florists' Rev. 58, 33, 1926.

iSeverin, So. Dak. Ent. R. 15, 16-20, 1924.

**Diaspis boisduvalli (Boisduval's scale)**

Severin, So. Dak. Ent. R. 15, 28, 1924.

Trimble, Pa. Dept. Agr. B. 8: 2, 9, 1925.

Trimble, Pa. Dept. Agr. Gen. B. 480, 9-10, 1929.

**Diaspis carueli**

Britton & Zappe, Conn. B. 292, 167, '28.

Trimble, Pa. Dept. Agr. B. 8: 2, 10, 1925.

Trimble, Pa. Dept. Agr. Gen. B. 480, 10, 1929.

**Diaspis dignus**

nHoke, Annals Ent. Soc. Amer. 21: 671-672, 1928.

**Diaspis echinocacti (Cactus scale)\***

Severin, So. Dak. Ent. R. 15, 28, 1924.

**Diastrophus turgidus (Blackberry gall-maker)**

Scholl & Stephens, Tex. Dept. Agr. B. 84, 29, 1925.

**Diatraea gen.**

Dyar & Heinrich, P. U. S. N. M. 71, Art. 19, 1928, 48 p.

**Diatraea anathericola** 21, **busckella** 16-17, **castrensis** 28, **cayennella** 27-28, **incomparella** 13, **indigenella** 13

niDyar & Heinrich, P. U. S. N. M. 71, Art. 19, 1928.

**Diatraea lineolata**

Morrill, J. Ec. Ent. 18, 711, 1925.

Van Zwaluwenburg, J. Ec. Ent. 19, 666-668, 1926.

**Diatraea moorella, muellerella**

nDyar & Heinrich, P. U. S. N. M. 71, Art. 19, 17-18, 25, 1928.

**†Diatraea saccharalis (Sugarcane borer)\***

Box, Rept. Trip. Porto Rico Apr.-Jl. 1924, 14.

Box, Internat. Soc. Sugar Cane Tech. Proc. 2, 76-78, 1927.

Bradley, La. R. f. 1924, 25-26, 1925.

Brandes, Sugar B. 3: 23, 4, 1925.

Brethes, Sugar, 29, 489-490, 1927.

bCleare, Internat. Cong. Ent. 4, Tr. 2, 131-137, 1929.

Cross, Ref. Bk. of Sugar Indus. of World 4, 36, 1926.

Dykens, Facts about Sugar 20, 849, 1925; 21, 374, 676, 1926.

Earle, Facts about Sugar 20, 732, 1925; 22, 968-970, 1927.

Edgerton and Tims, La. B. 197, 13-14, 1927.

Gowdey, Jamaica Sci. & Agr. Dept R. f. 1925, 10, 1926.

Haley, Sugar B. 5: 28, 2, 1926.

- Harreveld, Facts about Sugar 20, 562, 1925.
- Hinds, La. Planter Ref. Bk. 4, 52, J1, 1926.
- Hinds, La. R. f. 1926, 93-100, 1926.
- Hinds, Sugar B. 6: 13, 6, 1928.
- Hinds, Sugar B. 7: 18, 5, 1929.
- Hinds, Sugar B. 7: 23, 9, 1929.
- Hinds & Spencer, Sugar Bul. 5: 15, 3-5, 1927.
- Hinds & Spencer, Sugar Bul. 5: 22, 5, 1926.
- Hinds & Spencer, Planters Ref. Bk. 5, 42-43, 1927.
- Hinds & Spencer, J. Ec. Ent. 21, 193-197, 1928.
- ibHinds & Spencer, Ref. Bk. Sugar Indust. of World, f. 1928, 64-65.
- Hinds & Spencer, J. Econ. Ent. 22, 633-636, 1929.
- Hinds, Spencer & Jackson, La. R. f. 1925, 24-25, 1925.
- Hinds, Spencer, Osterberger & Stracener, Sugar Bul. 5: 10, 3-4, 1927.
- Holloway, Facts About Sugar 20, 618, 733, 1925.
- Holloway, Sugar B. 3: 21, 3, 1925.
- Holloway, Sugar B. 4: 5, 4, 1925.
- Holloway, Sugar Bul. 4: 3, 3, 1926.
- Holloway, Sugar B. 5: 9, 3-4, 1927.
- Holloway, Sugar B. 5: 17, 5-6, 1927.
- Holloway, Sugar Bul. 5: 21, 2-3, 1927.
- iHolloway, Miss. St. Plant Bd. Quar. B. 8, 4: 7-11, 1929.
- Holloway & Haley, Sugar, 27, 75-77, 1925.
- Holloway & Haley, Facts about Sugar 21: 48, 1142, 1926.
- Holloway & Haley, Sugar B. 5: 5, 4-5, 1926.
- Holloway & Haley, Sugar B. 5: 23, 2, 1926.
- Holloway & Haley, Sugar B. 5: 28, 2, 1926.
- Holloway & Haley, Sugar 28: 12, 562, 1926.
- bHolloway & Haley, Facts about Sugar 22: 2, 42-43, 1927.
- Holloway & Haley, J. Ec. Ent. 20, 703-705, 1927.
- Holloway & Haley, Sugar 31: 3, 106, 1929.
- Holloway, Haley & Ingram, Facts about Sugar 21, 1142, 1926.
- Holloway, Haley & Ingram, Planter & Sugar Manfg. 77, 22, 431, 1926.
- Holloway, Haley & Ingram, Sugar B. 5: 5, 4-5, 1926.
- Holloway, Haley & Ingram, U. S. D. A. C. 45, 1929, 7 p.
- iIngram, U. S. F. B. 1543, 8-12, 1927.
- Janes, Holloway & Haley, Planter & Sugar Manufacturer 78, 338, 1927.
- Janes, Holloway & Haley, Sugar 29, 226, 1927.
- Kannan, Internat. Cong. Ent. 4, Tr. 2, 65-67, 1929.
- Morris, Facts about Sugar 22, 923, 1927.
- Morris, Sugar B. 5: 24; 3, 1927.
- Plank, Internat. Soc. Sugar Cane Tech. Proc. 2d Confer. 62-63, 1927.
- Plank, Internat. Soc. Sugar Cane Tech. Proc. 2d. Confer. 71-72, 1927.
- Plank, J. Econ. Ent. 22, 983-984, 1929.
- iPlank, Trop. Res. Found. B. 8, 1929, 16 p.
- Quar, Facts about Sugar 20, 662, 1925.
- Rosenfeld, Facts about Sugar 20, 999, 1925.
- Rosenfeld, Facts about Sugar 20, 1042, 1925; 21, 1207, 1926.
- Rosenfeld, Sugar B. 5: 5, 2-3, 1926.
- iRosenfeld, Sugar Bul. 5: 7, 3-5, 1926—5: 8, 4, 1927.
- Rosenfeld, Trop. Plant Res. Found. Sci. Cont. 6, 18, 1926.
- Rosenfeld, J. Ec. Ent. 21, 236, 1928.
- Salt, Rept. on Sugar Cane Borer, 1926, 62 p.
- Salt, Harvard Inst. Trop. Biol. & Med. Cont. 3, 15-40, 1926.
- Simpich, Planter 75, 352, 1925.
- Van Dine, Trop. Plant Res. Found. B. 2, 1926, 11 p.
- Van Dine, Sugar 29, 218-220, 1927.
- Wolcott, Facts about Sugar 24, 638, 639, 641, 1929.
- bWolcott, Internat. Cong. Ent. 4, Tr. 2, 62-64, 1929.
- Diatraea saccharalis—Grass hosts**
- Plank, Internat. Soc. Sugar Cane Technologists Conf. 2, 71-72, 1927.

**Diatraea saccharalis—Parasites**

- Box, La. Planter Ref. Bk. 4, 49-51, 1926.  
 Box, Planter 80, 363, 1928.  
 Box, Sugar B. 6: 11, 1-3, 1928.  
 Brethes, Sugar 29: 10, 489-490, 1927.  
 Gowdey, Jamaica Sci. & Agr. Dept. R. f. 1925, 10, 1926.  
 Hinds, Planter & Sugar Mfg. 83, 197, 1929.  
 Hinds, Sugar B. 7: 23, 12, 1929.  
 iHinds & Spencer, J. Ec. Ent. 21, 273-278, 1928.  
 Hinds & Spencer, Ref. Bk. Sugar Indust. of World, f. 1928, 63-64.  
 Holloway, Internat. Soc. Sugar Cane Tech. Conf. 2, Proc. 1927, 67-68.  
 bHolloway, Planter & Sugar Mfg. 80: 13, 241-242, 1928.  
 Holloway, Sugar Bul. 6: 12, 8-10, 1928.  
 Jarvis, Sugar 29, 562-565, 1927.  
 Myers, Planter & Sugar Manfg. 83, 344-346, 1929.  
 bPlank, Ann. Ent. Soc. Amer. 22, 621-640, 1929.  
 Plank, Internat. Soc. Sugar Cane Technologists. Conf. 2, 58-69, 1927.  
 Plank, J. Econ. Ent. 22, 982, 1929.  
 Plank, Trop. Res. Found. Contrib. 15, 16, 17, 1929.  
 Pratt, Citrus Industry 7: 6, 8, 1926.  
 Sandlin, Sugar B. 6: 14, 5, 1928.  
 Townsend, Sugar Bul. 5: 11, 6, 1927.  
 bVan Dine, J. Ec. Ent. 22, 248-268, 1929.  
 Watson, Citrus Industry 7: 6, 8, 1926.
- Diatraea saccharalis crambidoides**  
 Hinds, Ref. Bk. Sugar Indus. of World 4, 52, 1926.  
 iHinds, La. B. 201, 1927, 56 p.  
 iHinds & Spencer, Facts about Sugar, 22, 534-535, 1927.  
 Hinds & Spencer, J. Ec. Ent. 20, 352-358, 1927.  
 iHinds & Spencer, La. B. 198, 1927, 26 p.  
 iHinds & Spencer, La. Pl. and Sugar Mfg. Co. Ref. Bk. Sugar Ind. of the World 5: 5, 42-43, 1927.  
 Holloway & Haley, Facts about Sugar, 22: 42-43, 1927.
- Diatraea saccharalis saccharalis**  
 Van Dine, Trop. Plant Res. Found. B. 2, 1926, 11 p.; B 3, 7-8, 1926.

**Diatraea schausella**

- niDyar & Heinrich, P. U. S. N. M. 71; Art. 19, 24-25, 1928.

**Diatraea spp.**

- iBox, Ref. Bk. Sugar Indust. of World f. 1928, 55-56.  
 Box, Internat. Sugar J. 29, 432-435, 1927.

**Diatraea spp.—Parasites**

- Box, Ref. Bk. Sugar Indus. of World 4, 49-52, 1926.

**Diatraea striatalis**

- Poll, Facts about Sugar 20, 1049, 1925.

**Diatraea zeacolella (Southern corn stalk borer)\***

- Barre, S. C. R. 42; 66-68, 1929.  
 iCaffrey & Worthley, U. S. F. B. 1548, 45, 1927.  
 Drake and Decker, Iowa C. 103, 14, 1927.  
 iEllis, J. Agr. Res. 30, 786, 1925.  
 Mohler, Kans. St. Bd. Agr. Quar. R. 48, 191, 212, 1929.  
 Schoene, Va. Poly. R. f. 1919-27, 47, 1928.  
 Wallace's Farm 51, 917, 1926.

**Diatraenopsis—n. gen.**

- nDyar & Heinrich, P. U. S. N. M. 71, Art. 19, 39, 1928.

**Diaulota densissima**

- iCasey, Pan-Pac. Ent. 5, 157, 1929.  
 iSaunders, Ann. Ent. Soc. Amer. 21: 542, 1928.

**Dibolia borealis**

- ibReed, Ann. Ent. Soc. Amer. 20, 540-559, 1927.

**Dibrachys boucheanus**

- ibMuesebeck & Dohanian, U. S. D. A. B. 1487, 25-27, 1927.  
 Paddock, Am. Bee J. 66, 555, 1926.

**Dicaelus elongatus**

- Sherman, Ent. News 39, 24, 1928.

**Dicentria fechima**

- nSchaus, PUSNM 73, 19, 18-19, 1928.

**Diceratothrips brevitubus**

- nMoulton, Pan-Pac. Ent. 6: 15-16, 1929.

**Diceratothrips wolcottii**

- nMorgan, Fla. Ent. 9: 1, 8-9, 1925.

**Dicerca divaricata**

- Peirson, Me. For. Ser. B. 5, 37-38, 1927.

**Dicerca spp.—Key**

- Fisher, PUSNM 65; 9, 130, 1925.

**Diceroprocta** genus

iDavis, J. N. Y. Ent. Soc. 36, 439-457, 1928.

**Diceroprocta albomaculata** 452-453, *bibbyi* 453-455, *marevagans* 446-447

niDavis, N. Y. Ent. Soc. Jour. 36, 1928.

**Dicheirus blaisdelli**

nVan Dyke, Pan-Pacific Ent. 2, 125-126, 1926.

**Dichelacera** spp.—**Keys**

Hine, Mich. Univ. Mus. Zool. Occas. Papers 162, 35, 1925.

**Dichocysta pictipes**

Drake, Mich. Univ. Mus. Zool. Occ. Papers 190, 2, 1928.

**Dichomeris**, *see* **Ypsolophus****Dichrooscytus barberi**

nKnight, Can. Ent. 57, 95, 1925.

**Dichrooscytus tinctipennis**

nKnight, Proc. Biol. Soc. Wash. 40, 15-16, 1927.

**Dichrorampha** spp.—**Key**

Heinrich, USNMB 132, 10-11, 1926.

**Diclasiopa lacteipennis**—n. comb.

nCresson, Trans. Amer. Ent. Soc. 55, 167, 1929.

**Dicondylus longichelatus**

niFenton, P. U. S. N. M. 72; 8, 4, 1928.

**Dicondylus sulciscutellum**

nGirault, Ins. Insc. Mens. 14, 135, 1926.

**Dicosmoecus gilvipes**

Hisaw, Ecology 6, 125, 1925.

**Dicranota notabilis**

nKnowlton, Can. Ent. 61, 18, 1929.

**Dicranura vinula**

Cushman, Proc. Ent. Soc. Wash. 28, 38, 1926.

**Dictyophorus reticulatus**

iHume, Cultivation of Citrus Fruits, 1926, 426, 1926.

iWatson, Fla. B. 183, 407-408, 1926.

**Dictyoploca japonica**

iYagi, Jour. Expt. Zool. 46, 251-261, 1926.

**Dictyosoma elsa**

Poling, Can. Ent. 58, 80, 1926.

**Dictyospermum** scale, *see* **Chrysomphalus dictyospermi****Dicyphus**—**Key**

Walley, Can. Ent. 60, 119, 1928.

**Didea** genus, *daphne*

iHull, Ann. Ent. Soc. Amer. 18, 278-280, 1925.

**Didyma setifacies**

nWest, J. N. Y. Ent. Soc. 33, 124-125, 1925.

**Diedrocephala albula**

niOsborn, Annals Carnegie Mus. 16, 220, 1926.

**Diegobruchus**

Bridwell, Proc. Ent. Soc. Wash. 31, 143, 1929.

**Dielis atrata**, *dorsata*, *pyrura*

iBox, Porto Rico Dept. Agr. J. 9, 339, 342, 344, 1925.

**Dielis trifasciata**

Box, Porto Rico Dept. Agr. J. 9, 315, 345, 1925.

**Dienutus metallicus**

Ochs, Amer. Mus. Novit. 125, 4, 1924.

**Diestrammena japonica** (Greenhouse stone cricket)\*

Caudell, Proc. Ent. Soc. Wash. 28, 150, 1926.

Zappe, Conn. B. 275, 321, 1926.

**Diestrammena marmorata**

Zappe, Conn. B. 275, 321, 1926.

**\*Differential grasshopper**, *see* **Melanoplus differentialis****Diglyphomorphella aeneiscapus**

Girault, Ins. Insc. Mens. 14, 129, 1926.

**Digonochaeta setipennis**

Atwell, Ore. St. Bd. Hort. Portland Insectaries R. 1927, 1-24, 1927. Barringer, Amer. Florist 67: 1997, 7, 1926.

Jardine, Oreg. Bien. R. f. 1926-28, 102-103.

**Digonochaeta** sp.

Atwell, Oreg. St. Hort. Soc. Bien. R. 19, 102, 1927.

**Dikraneura abnormis**

iBall & De Long, Ann. Ent. Soc. Amer. 18, 328-329, 1925.

**Dikraneura affinis**, *albidula*

niOsborn, Annals Carnegie Mus. 18, 269, 271-272, 1928.

**Dikraneura (Dikraneura) albonasa**

niMcAtee, J. N. Y. Ent. Soc. 34, 160-161, 1926.

**Dikraneura alebroidea**

niOsborn, Annals Carnegie Mus. 18, 271, 1928.

**Dikraneura angustata**

niBall & DeLong, Ann. Ent. Soc. Amer.  
18, 328, 1925.

**Dikraneura attenuata, bilineata**

niOsborn, Annals Carnegie Mus. 18, 269-  
270, 1928.

**Dikraneura breviceps**

niOsborn, Annals Carnegie Mus. 18, 271,  
1928.

**Dikraneura carneola, cockerellii**

iBall & DeLong, Ann. Ent. Soc. Amer.  
18, 329-330, 333, 1925.

**Dikraneura cruentata**

iBall & DeLong, Ann. Ent. Soc. Amer.  
18, 331-332, 1925.

**Dikraneura debilis**

nMcAtee, J. N. Y. Ent. Soc. 34, 162, 1926.

**Dikraneura delicata**

niOsborn, Annals Carnegie Mus. 18, 273,  
1928.

**Dikraneura depressa**

Dozier, Porto Rico, Dept. Agr. J. 10:  
3 & 4, 261-262, 1926.

McAtee, J. N. Y. Ent. Soc. 34, 162-163,  
1926.

**Dikraneura disconotata, eburnea**

niOsborn, Annals Carnegie Mus. 18, 275,  
276-277, 1928.

**Dikraneura elongata**

niBall & DeLong, Ann. Ent. Soc. Amer.  
18, 327-328, 1925.

**Dikraneura fasciata**

niOsborn, Annals Carnegie Mus. 18, 273-  
274, 1928.

**Dikraneura fieberi**

iBall & DeLong, Ann. Ent. Soc. Amer.  
18, 327, 1925.

**Dikraneura flavida, fulva, fumida**

niOsborn, Annals Carnegie Mus. 18, 276-  
277, 1928.

**Dikraneura gen.—North America**

iBall & DeLong, Ann. Ent. Soc. Amer.  
18, 324-337, 1925.

**Dikraneura hyalina**

niOsborn, Annals Carnegie Mus. 18, 276,  
1928.

**Dikraneura kunzei**

iBall & DeLong, Ann. Ent. Soc. Amer.  
18, 330, 1925.

**Dikraneura laticeps**

niOsborn, Annals Carnegie Mus. 18, 277-  
278, 1928.

**Dikraneura lepida**

niMcAtee, J. N. Y. Ent. Soc. 34, 161, '26.

**Dikraneura lineata**

niOsborn, Annals Carnegie Mus. 18, 278,  
1928.

**Dikraneura maculata**

iBall & DeLong, Ann. Ent. Soc. Amer.  
18, 333-334, 1925.

**Dikraneura maculosa**

niOsborn, Annals Carnegie Mus. 18, 272,  
1928.

**Dikraneura mali, marginata**

iBall & DeLong, Ann. Ent. Soc. Amer.  
18, 326, 331, 1925.

**Dikraneura mera**

iBall and DeLong, Ann. Ent. Soc. Amer.  
18, 332, 1925.

**Dikraneura micronotata**

niOsborn, Annals Carnegie Mus. 18, 278-  
279, 1928.

**Dikraneura myersi**

nMcAtee, J. N. Y. Ent. Soc. 34, 161, '26.

**Dikraneura obliquata**

270, *oculea* 268,  
*panamana* 272-273, *parallela* 274,  
*parana* 268, *pellucida* 271, *quadri-*  
*fasciata* 272, *reticulata* 279, *rosea* 278  
niOsborn, Annals Carnegie Mus. 18, 1928.

**Dikraneura rufula**

iBall & DeLong, Ann. Ent. Soc. Amer.  
18, 329, 1925.

**Dikraneura russea**

nMcAtee, J. N. Y. Ent. Soc. 34, 160, '26.

**Dikraneura sandersi**

niBall & DeLong, Ann. Ent. Soc. Amer.  
18, 332, 1925.

niOsborn, Annals Carnegie Mus. 18, 274,  
1928.

**Dikraneura sarana**

niOsborn, Annals Carnegie Mus. 18, 268,  
1928.

**Dikraneura spp.—Key**

iBall & DeLong, Ann. Ent. Soc. Amer.  
18, 325-326, 1925.

**Dikraneura splendidula, suffusa**

niOsborn, Annals Carnegie Mus. 18, 273,  
275, 1928.

**Dikraneurini, n. gen.—Key**

McAtee, J. N. Y. Ent. Soc. 34, 153, '26.

**Dikraneuroidea—n. gen., beameri**

niLawson, Bklyn. Ent. Soc. B. 24, 307-  
308, 1929.

- Diloboconodyla fouqueti**  
Wheeler, Amer. Mus. Nov. 255, 6-7, '27.
- Dimidiatus spp.—Key**  
Hull, Ohio J. Sci. 25, 293-294, 1925.
- Dimmockia incongruus**  
biMuesebeck and Dohanian, U. S. D. A. B. 1487, 29-30, 1927.
- Dimmockia pallipes**  
nMuesebeck, J. Agr. Res. 34, 333, 1927.
- Dimorphomyrmex—Identity of**  
iWheeler, Psyche 36, 1-12, 1929.
- Dinapate wrighti (California palm borer)**  
Stickney, Pac. Coast Ent. Soc. Proc. 2: 8, 114, 1928-9.  
Wymore, Pan-Pac. Ent. 4, 143, 1928.
- Dineutes carolinus, longimanus**  
Ochs, Amer. Mus. Novit. 125, 3, 5, 1924.
- Dineutes sp.**  
Hatch, Bklyn. Ent. Soc. 22, 27, 1927.
- Dineutes (?) sp.—Pleuropodia**  
Hussey, Entom. Amer. 7 n. s.: 1, 22, 1926.
- \*Dingy cutworm, see Feltia subgothica**
- Dinocampus fulvogaster, nigrogaster**  
nBrues, Proc. Amer. Acad. Arts & Sci. 61, 299-300, 1926.
- Dinocheirus genus, tenoch**  
nChamberlin, Pan-Pac. Ent. 5, 171-173, 1929.
- Dinoderus truncatus**  
Back & Cotton, U. S. F. B. 1260; rev. Dec. 1925, 13.
- Dinopomera gigantea—and disease**  
iBequaert, Harvard Institute Trop. Biol. & Med. Cont. 4, 253-256, 1924.
- Diobopterus varius**  
niOsborn, Annals Carnegie Mus. 16, 172, 1926.
- Diocalandra taitensis**  
Merrill, Cal. R. f. 1924-25, 51-52, 1926.
- Diocetes punctoria**  
iJones, U. S. D. A. Tech. B. 98, 3, 1929.
- Diocetes spp.—Key**  
Viereck, Can. Ent. 57, 227, 1925.
- Diolcus chrysorrhoeus**  
Hussey, J. N. Y. Ent. Soc. 33, 61-62, '25.
- Dione vanillae**  
Randolph, Ann. Ent. Soc. Amer. 20, 242-244, 1927.
- Diopsina—n. gen., ferruginea**  
nCurran, Amer. Mus. Nov. 324, 5, 1928.
- Diopsis dimidiata, munroi**  
nCurran, Amer. Mus. Nov. 340, 13-14, '29.
- Dioryctria reniculella (Spruce cone worm)**  
Peirson, Me. For. Serv. B. 5, 118, 1927.
- Dioryctria splendidella**  
Heinrich, Proc. Ent. Soc. Wash. 30, 61, 1928.
- Diospilus curticaudis**  
nGahan, PUSNM 71; 4, 1-2, 1928.
- Diotrepha mirabilis**  
liRogers, Ann. Ent. Soc. Amer. 20, 23-36, 1927.
- Diphadnus californicus**  
iEssig, Insects of Western No. Amer. 1926, 765-767.
- Diphlebus biparitor, tenax**  
Rau, St. Louis Acad. Sci. Tr. 25, 369-375, 1928.
- Diplazon laetatorius, orbitalis**  
Kamal, J. Ec. Ent. 19, 721-730, 1926.
- Diplocarpon rosae**  
iMcFarland, Fla. Grow. 16; 5, 245-246, 1929.
- Diplocysta opipara**  
nDrake, Pan-Pac. Ent. 4, 18, 1927.
- Diplodontus americanus**  
niMarshall, Iowa Univ. Stud. 11: 9, 33-34, 1926.
- Diplogaster brevicauda**  
nbiKotlan, Internat. Corn Borer Invest. Sci. R. 1, 179-183, 1928.
- Diplolepis acraspiformis 14-15, aggregata 15-17, amphora 17-18, caepula 19-20, capillata 20-21, cava 22-23, discalis 24-25, discularis 25, occultata 28-29, operta 29-30, sessilis 31-32, sulfurea 33-34, unica 34-36**  
nWeld, P. U. S. N. M. 68, Art. 10, 1926.
- Diploplectron**  
Cockerell, Ent. News 36, 87, 1925.
- Diplosis sp.**  
Peirson, Me. For. Serv. B. 5, 101, 1927.
- Diplosis tritici, see Thecodiplosis mosellana**
- Diplotaxis sp.**  
Hayes, Ann. Ent. Soc. Amer. 21, 288, 1928.
- Dipping vats**  
iImes, U. S. F. B. 1493, 16-22, 1926.  
Spencer, Farm Advoc. 60, 861, 1925.  
Stone, Ohio Bur. Farm. 5; 1, 10, 1929.  
Farmer, St. Paul, 46, 375, 1928.



**Diprion edwardsii, fulciceps**

iKeen, Cal. Dept. Nat. Resources B. 7, 83-87, 1928.

**Diprion simile (Introduced pine sawfly)\***

iBritton and Zappe, Conn. B. 292, 161, 1927.

Cooley, Mont. B. 170, 21, 1925.

Felt, J. Ec. Ent. 20, 65, 1927.

Felt, N. Y. St. Mus. B. 274, 161-162, 28.

Peirson, Me. For. Serv. B. 5, 95-96, 1927.

**Dips for cattle**

Hanson, J. Jam. Agr. Soc. 28, 365-366, 1924.

Imes, Vet. Med. 24, 439, 1929.

Jones, South. Dairym. 2; 7, 1, 1929.

Lockett, Jamaica Sc. & Agr. Dept. Ann. R. f, 1926, 13, 1927.

Monroe, New Mex. Ext. R. 4, 40, 1922.

Stone, Ill. Bur. Farm. 5; 1, 10, 1929.

Jamaica, Sci. & Agr. Dept. R. f. 1926, 1927.

Rur. Digest, 49; 1, 31, 1929.

**Dips for hogs**

Edwards, Farm & Ranch, 45; 39, 12, 1926.

Newlin, Wallace's Farm. 53, 899, 1928.

Weaver, S. Dak. Ext. C. 237, 2-7, 1926.

Hoard's Dairym. 74, 859, 1929.

Mo. Farm. 21, 359, 1929.

**Dips for poultry—Sodium fluoride**

E. T. Y., Successful Farm. 23; 7, 34, 1925.

Embleton, Ariz. Cattlem. & Farm. 12; 39, 2, 1929.

iVernon, Stouder & Cochran, Iowa Ext. B. 155, 5-7, 1929.

Farm & Ranch Rev. 24; 20, 20, 1928.

**Dips for sheep**

Arnaud, Fert. Feeding Stuff & Farm Supplies J. 10, 948, 1925.

Griswold, Dak. Farm. 45, 446, 1925.

Holloway, Farm & Ranch Rev. 24; 10, 8, 1928.

Main, Farm. Advoc. 62, 1070, 1927.

Mercer, Kans. Stockm. 13; 19, 4, 1929.

O'Brien, Farm. Advoc. 61, 867, 1926.

Remington, Ind. Chemist. 1, 525-528, 1925.

Wright, Md. Agr. Soc. R. 13, 379, 1928.

Bur. Farm. 4; 10, Ky. Farm. Bur. News, June 1929, p. 22.

Farm & Dairy, 47, 482, 1929.

Farm & Ranch 48; 36, 10, 1929.

Farmer, St. Paul. 46, 375, 1928.

Farm. Advoc. 62, 906, 1564, 1927.

J. Agr. & Hort. 32, 125, 1928.

Kans. Stockm. 13; 22, 4, 1929.

**Diptera—Medical importance**

Patton, Philippine J. Sci. 27, 177-200, 397-411, 1925.

**Diptera—New England—list**

bJohnson, Boston Soc. Nat. Hist. Oc. Papers 7, 1925, 326 p.

**Diptera—Parasitic—China & India**

Aldrich, P. U. S. N. M. 74, 8, 1928, 7 p.

**Diptera—Synonymy**

Aldrich, Proc. Ent. Soc. Wash. 30, 41-45, 142-145, 1928; 31, 32-36, 1929.

**Discocerina neveifrons**

nCresson, Trans. Amer. Ent. Soc. 52, 251, 1926.

**Discomyza u-signata**

nCresson, Trans. Amer. Ent. Soc. 52, 250, 1926.

**Diseases of insects**

bGlaser, J. Econ. Ent. 18, 769-771, 1925.

nbGlaser, An. Ent. Soc. Amer. 19, 193-198, 1926.

Science Suppl. 65: 1681, XIV, 1927.

**Disholcaspis conalis**

nWeld, PUSNM 68; 10, 37, 1926.

**Disholcaspis eldoradensis**

Weld, Brklyn Ent. Soc. B. 20, 175, '25.

**Disholcaspis mamma (Rough bullet gall)**

Weld, PUSNM 68; 10, 38-39, 1926.

**Disholcaspis pedunculoides**

nWeld, P. U. S. N. M. 68, 10, 39-40, '26.

**Disinfectants**

Roark, Nat. Safety News 17: 1, 23-24, 1928.

**Disinfectants—Foulbrood—Surface tensions**

Gilbert, Wyo. B. 159, 1928. 131 p.

**Dismorphia astynome chloronome—subsp niAvinoff, Ann. Carnegie Mus. 16, 363, '26.****Dismorphia broomeae robinsoni—new form**

nSchaus, Proc. Ent. Soc. Wash. 29, 186, 1927.

**Dismorphia leuconoe melanina 362, lysandra 361-362, pinthaeus 362, spectabilis 361, spio virago 363**

- niAvinoff, Ann. Carnegie Mus. 16, 1926.
- Disonycha carolina**, politula  
Brisley, Trans. Amer. Ent. Soc. 51, 175, 1925.
- Disonycha spilotrachela**  
niBlake, Brklyn. Ent. Soc. B. 23: 96-98, 1928.  
Cooley, Mont. B. 170, 26, 1925.  
iPettit, Mich. Sp. B. 183, 22, 1929.
- Disphragis agapa** 27-28, arima 24-25, carantis 27, clitiusa 22, druona 26, epimacha 23, hyginia 25-26, marusa 23-24, psalmoida 28, sabaria 25  
nSchaus, P. U. S. N. M. 73; 19, 1928.
- Dissosteira carolina** (Carolina grass-hopper)\*  
Brownell, Nat. Mag. 8, 78, 1926.  
Hawley, Utah C, 54, 19, 1925.  
Snodgrass, Smith, Misc. Coll. 82: 2, 33-109, 1929.
- Distichona cubensis**  
nCurran, Amer. Mus. Nov. 260, 3-4, 1927.
- Ditrichophora canifrons**  
nCresson, Trans. Amer. Ent. Soc. 52, 250-251, 1926.
- Ditrichophora nadineae**  
nCresson, Ent. News 36, 166-167, 1925.
- Divaricated Buprestis**, *see* **Dicerca divaricata**
- Dixa (Paradixa) camerounensis**  
nAlexander, Ins. Insc. Mens. 14, 11-12, '26.
- Dixa indiana**  
nDyar, Ins. Insc. Mens. 13, 217-218, 1925.
- Dixa—Larval characters**  
iSmith, J.N.Y. Ent. Soc. 36, 263-286, '28.
- Dixa universitates**  
nCockerell, Proc. Ent. Soc. Wash. 28, 166, 1926.
- Dixippus morosus—Phototropism**  
Yagi, J. Gen. Physiol. 11: 3, 297-300, 1928.
- \***Dobson fly**, *see* **Corydalis cornuta**
- Docessissophothrips animus**  
nMoulton, Bklyn. Ent. Soc. B. 24: 242-244, 1929.
- Dock aphid**, *see* **Aphis rumicis**
- Dock false-worm**, *see* **Ametastegia glabrata**
- Docosia defecta**, dialata  
niVan Duzee, Cal. Acad. Sci. Proc. 17; 2, 46-47, 1928.
- Dodecatheon pauciflorum**  
Day, Proc. Ent. Soc. B. C. 25; 14-15, 1928.
- Dogberry aphid**, *see* **Myzus cynosbati**
- Dog day cicada**, *see* **Tibicina pruinosa**
- \***Dog flea**, *see* **Ctenocephalus canis**
- \***Dog follicle mite**, *see* **Demodex canis**
- Dogwood borer**, *see* **Oberea tripunctata**
- Dogwood sawfly**, *see* **Macremphytus vari-  
anus**
- Dohrniphora bequaerti**  
Brues, Psyche 32, 313, 1925.
- Dohrniphora venusta**  
Brues, Psyche 35, 160-161, 1928.
- Dolerus arvensis**  
iWebster, Dakota Farmer 45, 788, 1925.
- Dolerus hordei**  
nRohwer, J. Wash. Acad. Sci. 15, 481-482, 1925.
- Dolerus okeanskajensis**  
nRohwer, P. U. S. N. M. 68; 8, 5-6, 1925.
- Dolerus yokohamensis**  
nRohwer, J. Wash. Acad. Sci. 15, 482, 1925.
- Dolichoderinae**  
iPiJoan, J. Ent. Zool. 20, 39-41, 1928.
- Dolichopodidae**  
iCurran, Tr. Canad. Inst. 16, 99-179, 1927.  
Van Duzee, P. U. S. N. M. 74; 10, 1928. 64 p.
- Dolichopodidae spp.**  
nVan Duzee, Psyche 32, 178-189, 1925.
- Dolichopus frontalis**  
nVan Duzee, Can. Ent. 60, 40-41, 1928.
- Dolichopus maculitarsis**  
nVan Duzee, Psyche 32, 184-185, 1925.
- Dolichopus nigricoxa**  
nVan Duzee, Can. Ent. 58, 230-231, 1926.
- Dolichopus oregonensis**  
nVan Duzee, Pan-Pac. Ent. 3, 148, 1927.
- Dolichopus reticulus**  
nVan Duzee, Can. Ent. 58, 231-232, '26.
- Dolichopus simulans**  
nVan Duzee, Can. Ent. 58, 231, 1926.
- Dolichopus subspina**  
nVan Duzee, Can. Ent. 60, 41-42, 1928.
- Doliopria americana**  
nFouts, Proc. Ent. Soc. Wash. 28, 169-170, 1926.
- Dollia boliviata**  
nSchaus, PUSNM 73; 19, 55, 1928.

**Domestic animals insects**

- Bishopp, J. Wash. Acad. Sci. 18, 45, 1928.  
 Bruce, J. Kans. Ent. Soc. 1, 74-79, 1928.  
 Dunn, Amer. J. Trop. Med. 9, 493-508, 1929.  
 iMetcalf & Flint, *Dest. & usef. ins.* 767-823, 1928.  
 iCornell Rur. School Leaf. 18: 3, 19-21, 1925.  
**Donacia genus—Key**  
 Schaeffer, Brklyn. Mus. Sci. B. 3, 55-64, 1925.  
**Donacia aequalis** 113-115, *assimilis* 96-97, *biimpressa* 97-101, *caerulea* 86-87, *cincticornis* 78-84  
 Schaeffer, Brklyn. Mus. Sci. B. 3, 1925.  
**Donacia connelli**  
 nCockerell, Can. Ent. 59, 304, 1927.  
**Donacia dissimilis**  
 Blatchley, Can. Ent. 57, 167, 1925.  
 nSchaeffer, Brklyn. Mus. Sci. B. 3, 115-116, 1925.  
**Donacia distincta** 103-104, *diversa* 143-144, *dubia* 152-154, *edentata* 76-77, *emarginata* 133-137, *flavipes* 127-130, *fulvipes* 145-147, *germari* 140-143, *harrisi* 120-122, *hirticollis* 89-91, *hypoleuca* 73-74, *liebecki* 110-111, *longicollis* 156-158, *magnifica* 87-89, *megacornis* 112-113, *metallica* 137-140, *militaris* 64-66, *neomexicana* 154-155, *nitida* 130-131, *notmani* 132-133, *palmata* 69-71, *parvidens* 77-78, *piscatrix* 66-69, *porosicollis* 101-102, *proxima* 84-86, *pubescens* 91-92, *pubicollis* 119-120, *pusilla* 149-152, *quadracollis* 92-94, *rufa* 117-119, *rufescens* 74-76, *rugosa* 94-96, *subtilis* 104-107, *sulcicollis* 125-127, *texana* 71-73, *tuberculifrons* 107-109, *vermiculata* 158-159, *vicina* 109-110, *wallisi* 147-149  
 nSchaeffer, Brklyn. Mus. Sci. B. 3, 1925.  
**Donaciini**  
 biSchaeffer, Brklyn. Mus. Sci. B. 3, 46-165, 1925.  
**Doratopsylla gen.**  
 Ewing, J. Parasitol. 12, 43-46, 1925.  
**Dorcus sp.**  
 Hayes, Ann. Ent. Soc. Amer. 21, 294, 1928.

**Dorsichoides—n. gen.**

- nMorrison, Proc. Biol. Soc. Wash. 40, 106, 1927.  
**Doru aculeatum**  
 iBuckell, B. C. Ent. Soc. Proc. 26, 19-20, 1929.  
 Schott, Brklyn. Ent. Soc. B. 21, 17, '26.  
**Doryctophasmus africanus**  
 nBrues, Proc. Amer. Acad. Arts & Sci. 61, 206, 1926.  
**Dorylaea bryanti**  
 nCaudell, PUSNM 71; 3, 4-5, 1928.  
**Dorylaimellus hopedorus** 187-188, *uniformis* 186-187, *varicaudatus* 183-184  
 nibThorne, Amer. Micro. Soc. Trans. 1929.  
**Doryloxenus**  
 iKemner, Internat. Cong. Ent. 4, Tr. 2, 832-835, 1929.  
**Dorylus helvius (Driver ant, Army ant)**  
 Beebe, Sci. Amer. Sup. 87, 228-229, 1929.  
 \*Douglas-fir beetle, *see* **Dendroctonus pseudotsugae**  
 Douglas-fir caterpillar, *see* **Euschausia argentata**  
 Douglas fir pitch moth, *see* **Aegeria novae-ocensis**  
 Downy darkling beetle, *see* **Epitragodes tomentosus**  
 Drab-cutworm, *see* **Euxoa auxillaris**  
**Draeculacephala clypeata**  
 niOsborn, Annals Carnegie Mus. 16, 236, 1926.  
**Draeculacephala lenticula, minerva**  
 nBall, Fla. Ent. 11, 36-38, 1927.  
**Draeculacephala minor**  
 Myers, Harvard Inst. Trop. Biol. & Med. Cont. 3, 82-84, 1926.  
**Draeculacephala mollipes (Sharp-headed leafhopper)**  
 Lawson, Ann. Ent. Soc. Amer. 19, 74, 1926.  
 Lawson, Kans. Ent. Soc. J. 2, 43, 1929.  
 Osborn, J. Ec. Ent. 19, 102, 1926.  
 Osborn, Ref. Bk. Sugar Indus. of World 4, 48, 1926.  
**Draeculacephala pagoda, portola**  
 nBall, Fla. Ent. 11, 35-38, 1927.  
**Draeculacephala sagittifera**  
 Osborn, J. Ec. Ent. 19, 101-102, 1926.

- Osborn, Ref. Bk. Sugar Indus. of World  
4, 48, 1926.  
Osborn, Porto Rico Dept. Agr. J. 13,  
93, 1929.
- Draculacephala** sp.—and allies  
Ball, Fla. Ent. 11, 33-40, 1927.
- Dragonflies**, *see* **Odonata**
- Dragonana**—n. gen.  
nBall & Reeves, Ann. Ent. Soc. Amer.  
20, 489-490, 1927.
- Drakella saundersi**  
nDownes, Can. Ent. 59, 60, 1927.
- Drapetis deceptor**  
nCurran, Amer. Mus. Nov. 339, 7, 1929.
- Drasinus hirsutus**  
niFletcher, Ann. Ent. Soc. Amer. 21, 211-  
212, 1928.
- Draudtia**, n. gen.  
nBarnes & Benjamin, Pan-Pac. Ent. 3,  
66-67, 1926.
- Drepanothrips reuteri**  
Jacobsen, Cal. Dept. Agr. Mo. B. 15;  
129, 1926.  
Moulton, Pan-Pac. Ent. 3, 22, 1926.  
iMoulton, Calif. Dept. Agr. Mo. B. 17,  
455-457, 1928.
- Dried apple fruit worm**, *see* **Vitula serra-  
tilineella**
- Dried fruit insects**  
Marlatt, USDA Ent. R. f. 1928, 15.  
— Cal. Cult. 70, 31, 1928.  
— Cal. Fruit News, 77; 2061, 9, 1928.
- Drilus mauritanicus** on **Cyclostoma**  
Bequaert, J. Parasitol. 11, 202, 1925.
- Driotura gammoroides**  
iLawson, Ann. Ent. Soc. Amer. 21:  
452-454, 1928.
- Driotura** gen., **robusta**, **vittata**  
bnLawson, Ann. Ent. Soc. Amer. 21:  
449-459, 1928.
- Driver ant**, *see* **Dorylus helvolus**
- Drosicha burmeisteri**  
Cockerell, Proc. Ent. Soc. Wash. 31, 16,  
1929.
- Drosichiella**—n. gen., **tectonae**  
nMorrison, Proc. Biol. Soc. Wash. 40,  
105, 1927.
- Drosichoides**—n. gen.  
Morrison, Proc. Biol. Soc. Wash. 40,  
106, 1927.
- Drosophila ampelophila**, *see* **Drosophila  
melanogaster**
- Drosophila funebris**  
bSpencer, Amer. Nat. 61, 89-91, 1927.  
iSpencer, J. Exp. Zool. 51: 2, 177-197,  
1928.
- Drosophila hydei**  
bSpencer, Ecology 47, 441-466, 1927.  
bSpencer, Genetics 13, 44-49, 1928.  
Warren, Genetics 13: 1, 44-49, 1928.
- Drosophila melanogaster** (**Pomace fly**)\*  
bAlpatov, Proc. Nat. Acad. Sci. 15,  
578-580, 1929.  
iBergner, J. Exp. Zool. 50: 1, 107-164,  
1928.  
iBridges, J. Gen. Physiol. 8, 689-700, '27.  
bBridges, Carnegie Inst. Wash. Pub.  
399, 65-89, 1929.  
bliBridges, Carnegie Inst. Wash. Pub.  
399, 91-99, 1929.  
Brown, Amer. Mus. Nov. 299, 1-6, '28.  
iDeCoursey, J. Ec. Ent. 18, 626-629,  
1925.  
Hanson & Heys, Amer. Nat. 63, 511,  
1929.
- bliKing, Biol. B. 53, 465-468, 1927.  
bMohr, Hereditas 9, 169-179, 1927.  
bSpencer, Amer. Nat. 60, 282-285, 1926.  
iSteinfeld, Cal. Univ. Pub. Zool. 31: 9,  
131-178, 1928.  
bSturtevant, J. Expt. Zool. 46, 493-  
498, 1927.  
Watson, Cit. Indus. 10: 7, 9, 1929.
- Drosophila melanogaster**—**Chromosomes**  
Morgan, Nat. Acad. Sci. Proc. 12, 180-  
181, 1926.  
Serebrovsky, et al, J. Genetics 21, 287-  
314, 1929.
- Drosophila melanogaster**—**Crippled**  
Komai, Genetics 11, 280-293, 1926.
- Drosophila melanogaster**—**Culture media**  
Pearl & Penniman, Amer. Nat. 60, 347-  
366, 1926.
- Drosophila melanogaster**—**Duration of  
life**  
ibAlpatov & Pearl, Amer. Nat. 63, 37-67,  
1929.  
ibSteinfeld, Cal. Univ. Pub. Zool. 33; 9,  
131-178, 1928.
- Drosophila melanogaster**—**Effects of  
radium on**  
Hanson & Heys, Sci. 68, 115-116, 1928.  
ibHanson & Winkelman, J. Heredity 20,  
277-285, 1929.

- Drosophila melanogaster**—Effects of temperature on  
ibBliss, J. Gen. Physiol. 9, 467-495, 1926.  
Stern, Nat. Acad. Sci. Proc. 12, 530-532, 1926.
- Drosophila melanogaster**—Effect of X-ray  
bAnderson, Mich. Acad. Sci. Papers 4: 1, 523-525, 1925.  
bAnderson, Mich. Acad. Sci. Papers 5, 355-366, 1926.  
Barth, Physiol. Zool. 2: 172-180, Ap. 1929.  
Dobzhansky, Proc. Nat. Acad. Sci. 15, 633-38, 1929.  
Hanson, Science 67, 562-563, 1928.  
iMavor, Am. J. Roentgenology 10, 968-975, 1923.  
Mayer, J. Exp. Zool. 47, 63-83, 1927.  
Muller, Science, 67, 82, 1928.  
iPainter & Muller, J. Heredity 20, 287-298, 1929.  
Patterson, Science 68, 41-43, 1928.  
ibPatterson, J. Heredity 20, 261-267, 1929.  
bTimofeeff-Ressovsky, Amer. Nat. 63, 118-124, 1929.
- Drosophila melanogaster**—Eye  
Zeleny, Amer. Nat. 62, 88-90, 1928.
- Drosophila melanogaster**—Genetics  
bSturtevant & Plunkett, Biol. B., 50, 56-60, 1926.  
ibSturtevant, et al, Carnegie Inst. Wash. Pub. 399, 1929, 296 p.
- Drosophila melanogaster**—Gynandromorphism  
iMavor, Sci. Amer. 133, 322, 1925.
- Drosophila melanogaster**—Haploidy  
biBridges, Proc. Nat. Acad. Sci. 11, 706-710, 1925.
- Drosophila melanogaster**—Heredity  
Sturtevant, J. N. Y. Ent. Soc. 33, 244, 1925.
- Drosophila melanogaster**—Imaginal buds  
ibChen, J. Morphology & Physiology, 47; 1, 135-199, 1929.
- Drosophila melanogaster**—Inheritance—Crippled  
iKomai, Genetics, 11, 280-293, 1926.
- Drosophila melanogaster**—Larva  
ibAlpatov, J. Expt. Med. 52, 407-432, 1929.
- Drosophila melanogaster**—Mold disease  
bFrobisher, Biol. B. 51, 153-162, 1926.
- Drosophila melanogaster**—Mutation  
iHanson & Winkleman, J. Heredity 20, 277-286, 1929.  
ibStern & Bridges, Genetics 11, 503-530, 1926.  
bSturtevant, Genetics 13, 401-409, 1928.  
bWexelsen, Genetics 13, 389-400, 1928.
- Drosophila melanogaster**—Nuclear conditions in spermatocytes  
Jeffrey, Science 68: 187-188, 1928.
- Drosophila melanogaster**—Nutrition  
Herms, J. Ec. Ent. 22, 47, 1929.
- Drosophila melanogaster**—Oxygen metabolism  
bClare, Biol. B. 49, 440-460, 1925.
- Drosophila melanogaster**—Oxygen consumption  
biOrr, J. Gen. Physiol. 7, 731-734, 1925.
- Drosophila melanogaster**—Phototropism  
McEwen, Biol. B. 49, 354-364, 1925.
- Drosophila melanogaster**—Polyploidy  
Morgan, Genetics 10: 2, 148-178, 1925.
- Drosophila melanogaster**—Reduction divisions  
Jeffrey, Science, n. s. 71, 1838, 315-317, 1930.
- Drosophila melanogaster**—Triploid intersexes  
ibBridges, Amer. Nat. 62, 425-434, 1928.
- Drosophila melanogaster**—Phototropism and disease  
iFelt, N. Y. St. Mus. B. 274, 21, 1928.
- Drosophila obscura**  
bGershenson, Genetics, 13, 488-507, 1928.  
Lancefield, Anatom. Rec. 31, 346, 1925.
- Drosophila simulans**  
bSturtevant & Plunkett, Biol. B., 50, 56-60, 1926.  
Sturtevant, et al, Carnegie Inst. Wash. Pub. 399, 1929, 296 p.
- Drosophila sp.**  
Hersh, J. Exp. Zool. 50: 2, 239-255, '28.  
McDaniels, Mich. Cir. B. 106, 14-15, '27.
- Drosophila sp.**—Abnormal sexuality  
ibCrew, Quar. Rev. Biol. 1, 315-359, 1926.
- Drosophila sp.**—Aseptic culture  
Northrip, J. Gen. Physiol. 9, 763-765, 1926.
- Drosophila sp.**—Bar locus  
bMorgan, Hereditas 9, 1-9, 1927.
- Drosophila sp.**—Benign tumor  
bStark & Bridges, Genetics 11, 249-266, 1926.

- Drosophila** sp.  
Muller, Amer. Nat. 60, 192-195, 1926.
- Drosophila** sp.—Culture medium for  
Komai, Science 65, 42-43, 1927.
- Drosophila** sp.—Duration of life  
Northrip, J. Gen. Physiol. 9, 319, 1926.
- biPearl et al, Amer. Nat. 61, 289-318, 1927.  
Pearl, Quart. Rev. Biol. 3, 391-407, '28.
- Drosophila** sp.—Effect of light on growth  
iNorthrip, J. Gen. Physiol. 9, 81-86, 1925.
- Drosophila**—Effect of radium on  
Hanson & Heys, Amer. Nat. 63, 201-213, 1929.
- Drosophila**—Effects of temperature on  
Hersh, J. Expt. Zool. 47, 227-250, 1927.
- Drosophila**—Effect of X-ray on eye  
iCasteel, J. Exp. Zool. 53, 373-385, '29.
- Drosophila**—Effect of X-ray on aging  
iHarris, Heredity 20, 299-302, 1929.
- Drosophila**—Effect of influence of X-rays on  
Hussey, et al, Science 66, 65-66, 1927.
- Drosophila** sp.—Effect of X-ray on  
Muller & Painter, Amer. Nat. 63, 193-200, 1929.
- Drosophila** sp.—Eyeless.  
bGuthrie, Journ. Exper. Zoology 42, 307-314, 1925.
- Drosophila** sp.—Genetics  
iPainter & Muller, J. Heredity 20, 287-298, 1929.
- Drosophila** sp.—In milk  
Bruce, Ent. Soc. B. C. Proc. 24, 26-27, 1927.
- Drosophila** sp.—Mutation  
Ferris, Quart. Rev. Biol. 4, 395, 1929.  
Jeffrey, Science n. s., 62, 3-5, 1925.  
bMuller, Genetics 13, 280-357, 1928.  
Muller, The Sci. Month. 29, 501, 1929.  
ibPatterson, J. Exp. Zool. 53, 327-372, 1929.
- Drosophila** sp.—Synthetic food  
bPearl, J. Gen. Physiol. 9, 513-523, 1926.
- Drosophila** spp.—Chromosome  
ibHamlett, Biol. Bul. 51, 435-442, 1926.
- Drosophila** spp.—Cytological translocation  
bMuller, Amer. Nat. 63, 481-485, 1929.
- Drosophila** spp.—Eye  
ibiRichards & Furrow, Biol. B. 48, 243-252, 1925.
- Drosophila** spp. and temperature sterilization  
ibYoung & Plough, Biol. Bul. 51, 189-198, 1926.
- Drosophila** virilis—Mutation  
bDemerec, Nat. Acad. Sci. Proc. 12, 11-16, 687-690, 1926.  
Demerec, Proc. Nat. Acad. Sci. 13, 249-253, 1927.  
biDemerec, Genetics, 13, 359-388, 1928.  
Demerec, Proc. Nat. Acad. Sci. 15, 834-838, 870-876, 1929.
- Drosophila** virillis and temperature  
Nadler, Genetics 11, 584-589, 1926.
- \*Drug-store weevil, *see* **Sitodrepa panicea**
- Drylix** *uneolus*  
Ball, Tr. Amer. Ent. Soc. 55, 6-7, 1929.
- Dryocosmus** *floridensis*  
Weld, PUSNM 68; 10, 42, 1926.
- Dryopoidea**—Bib.  
West, Battle Creek Col. B. 3, 3-12, 1929.
- Dryopidae**—Larval structure  
biWest, Ann. Ent. Soc. Amer. 22, 691-730, 1929.
- Duchelonyx** *oregona*  
Van Dyke, Pan-Pac. Ent. 1, 176, 1925.
- Dugonia**—n. gen., *eliera*  
nSchaus, PUSNM 73; 19, 43-44, 1928.
- Duhamel Du Monceau**: Pioneer Entomologist  
iSimmons, J. Ec. Ent. 22: 820-821, 1929.
- Duliticola** gen. nov., *paradoxa*  
niMjoberg, Psyche 32, 133-137, 1925.
- Durocapillata**—n. gen.  
nKnowlton, Ann. Ent. Soc. Amer. 20, 229-231, 1927.
- Durocapillata** *utahensis*  
niKnowlton, Ann. Ent. Soc. Amer. 20, 229-231, 1927.  
Knowlton, Fla. Ent. 13, 7, 1929.
- Dusky** cutworm, *see* **Feltia venerabilis**
- Dusky** leaf roller, *see* **Amorbia humerosana**
- Dusky** veined walnut aphid, *see* **Callipterus juglandis**
- Dusting**  
Beyer, Citrus Indus. 7; 8, 17, 1926.  
Bourne, Amer. Fr. Grow. Mag. 49: 8, 9, 1929.  
Burkholder, Am. Fr. Gr. Mag. 46; 2, 19, 1926.

**Dusting** *Cont'd*

- Burt, Better Fruit 23: 9, 16, 1929.  
 Cardinell, Mich. St. Hort. Assoc. R. 58, 29-33, 1928.  
 iCardinell, et al, Mich. Ext. B. 60, 2-8, 1928.  
 Cory & Potts, Md. B. 261, 128-130, 1924.  
 Fagan, Penn. St. Hort. Soc. Proc. f. 1926, 28-32.  
 Frasee, N. Y. St. Hort. Soc. Proc. 70, 62-64, 1925.  
 Glendenning, Ont. Ent. Soc. R. 58, 26, 1928.  
 iGoode, Success. Farm. 26: 2, 30, 31, 38-39, 1928.  
 Hinds, J. Ec. Ent. 19, 607-608, 1926.  
 Johnson, Better Fruit 22: 8, 40, 1928.  
 McDunnough, Am. Fr. Gr. Mag. 46; 2, 25, 1926.  
 Mason, Spraying, 204-230, 1928.  
 Robinson, Better Fruit 23: 8, 38, 41, 1929.  
 Sullivan, J. Ec. Ent. 21, 131-134, 1928.  
 iSullivan, Mo. B. 259, 1928, 12 p.  
 Talbert, Amer. Fr. Grow. Mag. 49; 2, 15, 1929.
- Dusting—Anabrus simplex**  
 iCowan & McCampbell, Colo. C. 53, 23-25, 1929.
- Dusting—Aphids**  
 Dudley et al, Internat. Cong. Ent. 4, Tr. 2, 606-621, 1929.  
 Watson, Fla. Grower 31; 16, 21, 1925.
- Dusting apparatus**  
 Burkholder, Amer. Fruit Grower Mag. 45; 2, 56, 1925.  
 iCaesar, Ont. Dept. Agr. B. 325, 5, 1927.  
 iCowan & McCampbell, Colo. C. 53, 25-27, 1929.  
 Dods, Calif. Citrog. 12, 181, 1927.  
 Lathrop et al, J. Ec. Ent. 18, 418-419, 1925.  
 iLePrince, U. S. Pub. Health R. 44, 1001-1018, 1925.  
 iQuayle, Cal. Citr. 11, 296, 1926.  
 iQuale, Citrus Indus. 7: 7, 6, 1926.  
 Quayle, Citrus Leaves, 4; 6, 5, 1926.  
 iWatson, Citrus Indus. 7; 4, 11, 1926.
- Dusting—Apple**  
 Cardinell, Mich. Hort. Soc. R. 58, 29-33, 1929.  
 Ingerson, Pa. St. Hort. Assoc. News 6; 1, 94-96, 1929.  
 Merchant, Me. B. 339, 180-182, 1927.  
 Sullivan, J. Ec. Ent. 19, 56-59, 1926.  
 Thompson, J. Ec. Ent. 22, 934-936, 1929.  
 Thurston, Ohio St. Hort. Soc. Proc. 59, 138-140, 1926.  
 Thurston, J., Pa. St. Hort. Assoc. News, 6; 1, 91-94, 1929.  
 Whitcomb, Mass. B. 249, 49-50, 1929.
- Dusting at night**  
 iCardinell, Amer. Fr. Grow. Mag. 49; 2, 8, 30, 1929.
- Dusting by aeroplane, see Aeroplane dusting**
- Dusting celery**  
 i—Seed World 26; 10, 11, 1929.
- Dusting—Citrus**  
 Berger, Citrus Indus. 6; 2, 17, 1925.  
 Dye, Cit. Indus. 6: 4, 10, 1925.  
 Kelley, Citrus Indus. 6: 4, 8, 1925.  
 Waldron, Citrus Ind. 8: 11, 10, 1927.  
 Waldron, Fla. St. Hort. Soc. Proc. 40, 69-72, 1927.  
 Watson, Citrus Industry 7; 4, 11, 1926.  
 Whittington, Citrus Indus. 6; 6, 6, 1925.
- Dusting—Cloud drift vs. regular method**  
 Hinds, J. Ec. Ent. 19, 607-608, 1926.
- Dusting—Cotton**  
 iBlythe, Commerce & Finance 15, 133-134, Jan. 13, 1926.  
 Coad, et al, U. S. Dept. Agr. Leaf. 53, 1929, 4 p.  
 iHoward, Sci. Amer. 136, 115, 1927.  
 Robinson & Arant, Ala. Poly. C. 53, 3-15, 1929.  
 iAircraft Year Book, 1925, 59-61.
- Dusting—Cucumbers**  
 Haven, Pac. Rur. Press, 118, 216, 1929.
- Dusting—Diatraea saccharalis**  
 Holloway, Haley & Ingram, Planter & Sugar Manfg. 77, 431, 1926.  
 Holloway, Haley & Ingram, U. S. D. A. C. 45, 1929. 7 p.  
 Smith, W. Va. Dept. Agr. Bien. R. 7, 61, 1926.
- Dusting—Experiments**  
 Ballou & Lewis, Hoosier Hort. 10, 92-96, 102-112, 1928.  
 Fitch, N. Y. St. Hort. Soc. Proc. 70, 174-182, 1925.

- Hunter, U. S. D. A. Dept. C. 361, 1926, 8-10.  
 Swaine, J. Ec. Ent. 22: 840, 1929.  
 Yothers, Citrus Industry 7; 4, 14, 1926.
- Dusting—Fruit trees**  
 Whetzel, Ohio St. Hort. Soc. Proc. 60, 76-89, 1928.  
 Whetzel, Peninsula Hort. Soc. Tr. f. 1925, 26-33, 1925.
- Dusting—Grape**  
 Ballou, Cal. Grape Grow. 9; 8, 14, 1928.  
 Fairbank, Agr. Eng. 7, 240, 1926.  
 Hartzell, N. Y. Gen. B. 519, 1924, 29 p.
- Dusting—Grasshoppers**  
 Wilson, J. Ec. Ent. 20, 545, 1927.
- Dusting materials**  
 Snapp, U. S. F. B. 1557, 41, 1928.
- Dusting materials—Bordeaux**  
 Caesar, Ont. Ent. Soc. B. 325, 5, 1927.  
 Kelsall, Fruit Gr. Assoc. N. S. R. 61, 97-100, 1925.  
 — Market Growers J. 38, 470, 1926.
- Dusting materials—Chemical changes**  
 Swingle, J. Agr. Res. 36, 183-192, 1928.
- Dusting materials—Commercial, physical properties of**  
 bStreeter, N. Y. Gen. Tech. B. 125, 1927, 12 p.
- Dusting materials—Home mixing**  
 — Fla. Grower 34: 24, 14, 1926.
- Dusting materials—Investigations**  
 Ginsburg, N. J. R. 49: 154-158, 1928.
- Dusting methods**  
 Gibbel, Amer. Potato Jr., 3, 163-166, '26.  
 Miller, Fla. B. 203, 465-466, 1929.
- Dusting—Orchards**  
 Blair, Agr. J. B. C. 9, 115, 1924.  
 Brock, Hoosier Hort. 8, 30-34, 1926.  
 Cummings, Vt. Ext. C. 49, 2-4, 1929.  
 Henderson, Cal. Countrym. 12; 2, 8, 1925.  
 Nichols, Tr. Iowa Hort. Soc. 62, 31-33, 1927.  
 Rapp, Tr. Iowa Hort. Soc. 62, 26-31, '27.  
 iReed & Moore, Ind. C. 135, 1926, 12 p.  
 Young, Ohio St. Hort. Soc. Proc. 58, 69-72, 1925.  
 Willson, N. Y. Hort. Soc. Proc. 71, 38-42, 1926.
- Dusting—Peach**  
 Brock, Hoosier Hort. 8, 34-35, 1926.  
 Brock, Ill. Hort. Soc. Trans. 60, 141-146, 1927.
- Neal & Hines, Miss. St. Pl. Bd. Q. B. 7; 4, 1-2, 1928.  
 Smith, Ill. St. Hort. Soc. Tr. 62, 447-454, 1927.
- Dusting—Pecan**  
 Demaree & Cole, U. S. D. A. Dept. C. 412, 1927, 8 p.
- Dusting—Potatoes**  
 Baker, West Wash. Expt. B. 10-W, 13-14, 1928.  
 Butler, N. H. C. 26, 1927, 16 p.  
 Cummings, Vt. Ext. C. 49, 2-4, 1929.  
 Dance, Amer. Potato J., 3, 162-163, 1926.  
 iHuckett, N. Y. Gen. C. 94, 1928, 10 p.  
 Russell, Morrison & Ebling, Wis. B. 388, 62, 1926.  
 Tilford, Ohio Mo. B. 11, 141-144, 1926.  
 — Seed World 26; 10, 11, 1929.
- Dusting—Results**  
 Ballou & Lewis, Hoosier Hort. 10, 110-112, 1928.
- Dusting—Sucking insects**  
 Thatcher, N. Y. Gen. R. 45, 38-39, 1926.
- Dusting—Tomatoes**  
 Davis, Spencer & Zimmerley, Va. Truck B. 46, 317-327, 1924.
- Dusting—Truck crops**  
 Rapp, Country Gentlem. 92; 8, 54, '27.
- Dusting vs. spraying**  
 Zappe & Stoddard, Conn. B. 265, 286-292, 1925.
- Dusting vs. spraying—Apple**  
 Giddings, et al, W. Va. B. 209, 1927, 28 p.
- Dusting vs. spraying—Grape insects**  
 Hartzell, N. Y. Hort. Soc. R. 57, 11-22, 1927.
- Dusting vs. spraying—Potato**  
 Dimock, Potato News B. 2, 19, 1925.  
 iHuckett, N. Y. Gen. C. 108, 1928, 12 p.
- Dusts**  
 Parrott, Penn. St. Hort. Assoc. Proc. 65, 8-22, 1924.  
 Parrott, Mass. Fruit Grow. Assoc. R. 35, 143-144, 1929.  
 Vickery & Browne, Handbk. Pest control Sec. 5, 1-14, 1929.  
 Whetsel, Amer. Fr. Gr. Mag. 46: 4, 46, 1926.
- Dusts—Adherence to foliage**  
 Barnes & Potts, J. Ec. Ent. 22, 957-965, 1929.



**Dusts—Gypsum as carrier**

Olson, Citrus Industry 3: 12, 22, 1922.

**Dusts—Nicotine**

Bourne, Mass. Ext. Leaf 31, rev. 3, 1929.

Brittain, Quebec Soc. Protec. Pl. R. 21, 33-36, 1929.

**Dusts—Qualities of good**

Moznette, Amer. Nut. J. 30, 67, 1929.

**Dusts—Stickers**

Ginsburg, N. J. R. 47, 206, 1926, 1927.

Headlee, N. J. R. 46, 411-414, 1926.

Lipman, N. J. R. 46, 23, 1926.

Lipman, N. J. R. 47, 18, 1927.

**Dusting—Vegetables**

Page, Neb. Bd. Agr. R. f. 1927, 373-380, 1927.

Page, Neb. St. Hort. Soc. R. f. 1927, 9-19.

**Dusting and spraying**

Brock, Fruit Belt 21; 10, 12-13, 1923.

Talbert, Amer. Fr. Grow. Mag. 49; 2, 15-16, 1929.

Young, Ohio Hort. Soc. Proc. 61, 34-39, 1928.

Young, Ohio St. Hort. Soc. Proc. 63, 34-39, 1928.

**Dusting and spraying apparatus**

Caesar, Ont. Dept. Agr. B. 325, 5, 1927.

**Dusting and spraying—Apple**

Sanders, Tr. Ky. St. Hort. Soc. 71, 188-200, 1926.

**Dusting and spraying—Cantaloupes**

Jehle & Potts, Md. B. 263, 169-180, 1924.

**Dusting and spraying—*Epilachna corrupta***

iMarcovitch, Tenn. Ext. C. 8, rev. Mar. 1928, 4 p.

Summers, The Canner, 68; 26, 20, '29.

Summers, Canning Trade 51; 43, 14, 1929.

**Dusting and spraying—Experiments**

McMunn, Ill. Hort. Soc. Tr. 60, 127-140, 1927.

Petch, Quebec Pom. & Fruit Gr. Soc. R. f. 1925, 120-125, 1925.

Petch, Can. Hort. 49, 29-30, 1926.

**Dusting and spraying—Peaches**

Keilholz, Ill. R. 39, 148, 1926.

**Dusting and spraying—Potatoes**

Couey, N. Dak. C. 37, 7, 1929.

Folson, Amer. Potato J., 3, 149-154, '26.  
ibKotila & Coons, Mich. Tech. B. 72, 1925, 15 p.

Tilford, Ohio Bi.-Mo. B. 11, 141-144, '26.

White, Amer. Potato J., 3, 353-355, '26.

**Dusting vs. Spraying**

Cory, Md. St. Hort. Soc. R. 29, 186-189, 1927.

Ingerson, Pa. St. Hort. Assoc. News 6; 1, 96-100, 1929.

Martin, N. J. St. Hort. Soc. Proc. f. 1928, 42.

Mumford, Ill. R. 40, 234-235, 1927.

**Dyar, Mosquitoes of Americas. Review.**

Howard, Science, 68; 485-486, 1928.

**Dyar, H. G.**

Howard, Science 69, 151-152, 1929.

***Dynastes hercules***

iHowes, Nature Mag. 9: 1, 27-29, 1926.

Howes, Sci. Amer. 139, 517, 1928.

***Dynastes tityus***

Davis, J. N. Y. Ent. Soc. 36, 109, 1928.

***Dyschirius criddlei***

nFall, Can. Ent. 57, 309-310, 1925.

***Dyschirius curvispinus, desertus***

Blatchley, Can. Ent. 57, 161, 310, 1925.

***Dyschirius secretus***

nFall, Pan-Pacific Ent. 2, 130-131, 1926.

***Dyscinetus picipes***

iStahl & Scaramuzza, Trop. Pl. Res. Foundation B. 10, 18-19, 1929.

***Dysdercus bidentatus***

niHussey, Brklyn Ent. Soc. B. 22, 233-234, 1927.

***Dysdercus obscuratus*—on cotton**

iBarber, J. Agr. Res. 31, 1137-1147, '25.

***Dysdercus suturellus* (Cotton stainer)\***

Watson, Fla. B. 183, 394, 1926.

Watson, Fla. Dept. Agr. Quar. B. 39: 3; 107-108, 1929.

***Dyslobus* (Amnesia) *granicollis***

Van Dyke, Pan-Pac. Ent. 3, 63, 1926.

***Dysmachus tolmeroides***

nBromley, Amer. Mus. Nov. 336, 3, 1928.

***Dysmerus basalis***

Champlain & Knull, Can. Ent. 57, 113, 1925.

***Dysodia granulata***

Barnes & Benjamin, Ent. News 36, 273, 1925.

- Dysstroma citrata*  
Wright, Pan-Pac. Ent. 3, 113-114, 1927.
- Dysstroma colvillei*  
nBlackmore, Can. Ent. 58, 100-101, '26.
- Dytiscidae**  
Hatch, Bklyn. Ent. Soc. B. 23, 217-229, 1928.
- Dytiscidae**—J. D. Sherman collection  
J. Ec. Ent. 20, 245, 1927.
- Dytiscus marginalis* on *Lymnaea stagnalis*  
Bequaert, J. Parasitol. 11, 202, 1925.
- Eacles imperialis* *see* *Basilona imperialis*
- Early aspen leaf curler, *see* *Exentera oregonana*
- Ear mite, *see* *Otodectes cynotis*
- Earthworms**  
Adolph, Jour. Expt. Zool. 47, 31-62, 1927.  
Bretnall, Science 66, 427, 1927.  
Dillon, Flower Grow. 14, 419, 1927.  
Gates, J. Wash. Acad. Sci. 19, 339-347, 1929.  
Gilbert, R. I. B. 212, 7, 1928.  
Hess, Guide to Nature 18, 46, 1925.  
iHowes, Nature Mag. 8, 89-91, 1926.  
iLeach, Golfdom 2: 6, 9-12, 1928.  
Olson, Ohio Biol. Surv. B. 17, 47-90, 1928.  
Ruedemann, Science n. s. 65, 163, 1927.  
Ruedemann, Lit. Digest 92, 25, Mar. 26, 1927.  
Severin, So. Dak. Ent. R. 15, 57, 1924.  
Skowron, Biol. B. 51, 199-208, 1926.  
Smith, School, Sci. & Math. 24, 805-809, 1924.  
bSmith, Ill. Nat. Hist. Surv. B. 17, Art. 10, 347-362, 1928.  
bSteagall, Tr. Ill. St. Acad. Sci. 1925, 121-132.  
Thomson, New Natural Hist. 1, 1926, 357-360.  
Walton, Science 66, 132, 1927.  
iWalton, U. S. F. B. 1569, 1928. 14 p.
- Easter butterfly, *see* *Euchloe genutia*
- \*Eastern larch beetle, *see* *Dendroctonus simplex*
- \*Eastern lubber grasshopper, *see* *Romalea microptera*
- \*Eastern spruce beetle, *see* *Dendroctonus piceaperda*
- Eastern pine bark beetle, *see* *Ips pini*
- Eastern swallow-tail, *see* *Papilio polyxenes*
- \*Eastern tent caterpillar, *see* *Malacosoma americana*
- Eburia quadrigeminata* (Four-lined ash borer)  
Champlain, Kirk & Knull, Ent. News 36, 105, 1925.  
Peirson, Me. For. Serv. B. 5, 30, 1927.
- Eburia quadrigeminata*—Perforates lead pipe  
— Fla. Ent. 11, 40, 1927.
- Eccoptogaster*, *see* *Scolytus*
- Ecdyonurus bipunctatus*  
nMcDunnough, Can. Ent. 58, 191-192, 1926.
- Ecdyonurus femoratus*  
McDunnough, Can. Ent. 57, 190-191, 1925.
- Ecdyonurus mediopunctatus*  
nMcDunnough, Can. Ent. 58, 191, 1926.
- Ecdyonurus pudicus*  
McDunnough, Can. Ent. 57, 191, 1925.
- Ecdyonurus ruber*  
nMcDunnough, Can. Ent. 58, 192-193, 1926.
- Ecdytolopha insiticihana*  
Peirson, Me. For. Serv. B. 5, 81, 1927.
- Ecdytolopha* spp.—Key  
Heinrich, USNMB 132, 74, 1926.
- Echemus iotus*  
niBanks, B. Harvard, Mus. Comp. Zool. 69, 57-58, 1929.
- Echidnophaga gallinacea* (Stick-tight flea)\*  
Beach & Freeborn, Cal. Ext. C. 8, 63, 1929.  
Carrion, P. R. Rev. Pub. Health 4: 2, 87, 1928.  
Chandler, Animal Parasites ed. 3, 420, 1925.  
Hall, S. C. Clemson Col. Weekly News Notes 14; 43, 1926.  
Hiscock, Amer. Agr. 122, 200, 1928.  
iParman, Farm & Ranch 45: 4, 2, 18, 21, 1926.  
Parman, J. Ec. Ent. 19, 644-648, 1926.  
Recknor, Farm & Ranch 44: 7, 18, 1925.  
Sanders, Fla. Dept. Agr. Quar. B. 36; 2, 68, 1926.
- Echinomegistus wheeleri*  
Miller, Ohio B. 1386, 135, 1925.

- Echinophilopterus*—gen., chapini, tanygnathi nEwing, J. Wash. Acad. Sci. 17, 92-94, 1927.
- Echinopyrrhosia trophocyon*  
nAldrich, PUSNM 74; 1, 18-19, '28.
- Echinosomopsis*—new name  
Townsend, Ins. Insc. Mens. 14, 38, 1926.
- Echinothrips subflavus*  
nHood, Ent. Americana 7, 213-214, 1927.
- Ecitomorpha melanotica*  
nMann, J. Wash. Acad. Sci. 16, 450-451, 1926.
- Ecitomyia manni, spinosa*—Costa Rica  
nBrues, Psyche 32, 304-307, 1925.
- Eciton californicum*  
iPijoan, J. Ent. Zool. 20, 37-49, 1928.
- Eciton gracellae*  
nMann, Psyche 33, 97-98, 1926.
- Eciton hamatum*  
Mann, Psyche 32, 166-177, 1925.  
iWheeler, Biol. Bul. 49, 139-149, 1925.
- Eciton (Acamatus) peninsulare*  
nMann, Psyche 33, 98-99, 1926.
- Eciton schmitti*  
Smith, Ann. Ent. Soc. Amer. 20, 401-404, 1927.
- Eciton (Acamatus) sumichrasti*  
Mann, Psyche 33, 99-101, 1926.
- Ecitophora costaricensis*—Costa Rica  
nBrues, Psyche 32, 307-308, 1925.
- Ecitophya gracillima, brevicornis*  
nMann, J. Wash. Acad. Sci. 15, 73, 74, 1925.
- Ecituncula setosa*—Mexico  
nBrues, Psyche 32, 309-310, 1925.
- Ecology—Animal**  
iChapman, Animal ecology 1925, 187, 183 p.  
iPearse, Animal ecology. 1926, 471 p.  
Wolcott, Proc. Ent. Soc. Wash. 29, 62-65, 1927.
- Ecology of insects, see Insects—Ecology**
- Ecophylla smaragdina*—Nest makers  
Hingston, Instinct & intelligence, 1929, 155-156.
- Ecpantheria (Arctiidae)*  
Forbes, Ann. Ent. Soc. Amer. 22, 310-330, 1929.
- Ecpantheria chelifera*  
nForbes, Ann. Ent. Soc. Amer. 22, 326-327, 1929.
- Ecpantheria suffusa*  
Barnes & Benjamin, Pan Pacific Ent. 1, 168-169, 1925.
- Ecphora* spp.—Key  
Viereck, Can. Ent. 57, 202-203, 1925.
- Ectatomma tuberculatum*  
iWheeler, J. Hered. 15, 485, 1925.  
bWheeler, Foibles of insects & men, 1928, 147-165.
- Ecthromorpha insidiator*  
Girault, Ins. Insc. Mens. 13, 38, '25.
- Ectobia germanica, see Blatella germanica*
- Ectoparasites**  
ibEwing, Man. Extern. parasites, 1929, 225 p.
- Ecytophya rapaxae*  
nMann, J. Wash. Acad. Sci. 16, 449-450, 1926.
- Editha*—n. gen., pulcherrima  
niParker, P.U.S.N.M. 75; 5, 17-20, 1929.
- Eepolus sarothrinus*  
nCockerell, Pan-Pac. Ent. 5, 103-104, 29.
- Egesta minutalis*  
nDyar, Proc. Ent. Soc. Wash. 30, 140, 1928.
- \*Eggplant flea beetle, *see* *Epitrix fuscula*
- Eggplant leaf miner, *see* *Phthorimaea glochinella*
- Egyptian cotton worm, *see* *Prodenia litura*
- \*Eight-spotted forester, *see* *Alypia octomaculata*
- Eipogona americana*  
nCurran, Brklyn Ent. Soc. B. 22, 148-149, 1927.
- Eirone superstes*  
nCockerell, Psyche, 36, 239-242, 1929.
- Elachertus pini*  
nGahan, J. Agr. Res. 34, 547-548, 1927.
- Elachiptera costata* and *celery heart rot*  
Leach, Phytopathology 17, 665, 1927.
- Elachista herbigrada*  
nBraun, Trans. Amer. Ent. Soc. 51, 211, 1925.
- Elachista inaudita*  
nBraun, Can. Ent. 59, 56-57, 1927.
- Elachista salinaris, sincera*  
nBraun, Trans. Amer. Ent. Soc. 51, 209-211, 1925.
- Elaphidion duncani*  
nKnull, Ent. News 38, 117, 1927.
- Elaphidion masoni*  
nKnull, Ent. News 39, 11-12, 1928.

**Elaphidion mucronatum**

Champlain, Kirk & Knull, Ent. News  
36, 106, 1925.

**Elaphidion villosus**, *see* **Hypermallus villosus****Elaphrothrips albospinosus**

nMoulton, Pan. Pac-Ent. 6: 11-12, 1929.

**Elaphrus parviceps**

nVan Dyke, Pan. Pac. Ent. 1, 112, 1925.

**Elasmopalpus lignosellus** (Lesser corn stalk borer)\*

Barre, S. C. R. 42, 69, 1929.

Drake & Decker, Iowa C. 103, 14, 1927.

Jacobsen, Cal. Dept. Agr. Mo. B. 16;  
655, 1927.

Lyle, Miss. St. Pl. Bd. Quar. B. 7: 2, 2-3,  
1927.

iPlank, J. Ec. Ent. 21, 413, 417, 1928.

iWatson, Fla. Dept. Agr. Quar. B. 39: 3;  
61-62, 1929.

**Elasmus atratus**

Baldur, Ohio J. Sci. 29, 237, 1929.

bMusebeck & Dohanian, U. S. D. A. B.  
1487, 29, 1927.

**Elateridae**

Bourne, Mass. Fr. Grow. Assoc. R. 31,  
103, 1925.

Campbell, J. Ec. Ent. 19, 636-642, 1926.

iHardy, B. C. Provin. Mus. R. f. 1927,  
E 16-E 17, 1928.

iHawley, Utah C. 54, 44, 1925.

Lane, J. Ec. Ent. 18, 90-95, 1925.

iMohler, Kans. St. Bd. Agr. Quar. R. 48:  
191, 198-199, 1929.

iMote, Oreg. C. 65, 36-38, 1926.

Spuler, Proc. Wash. St. Hort. Assoc. 21,  
57-60, 1925.

**Elatophilus pinophilus**

Blatchley, Ent. News 39, 87, 1928.

**Electric light bug**, *see* **Lethocerus americanus****Electricity and insect raising**

Elect. World. 94, 530, Sept. 14, 1929.

**Eleodes adumbrata**

nBlaisdell, Proc. Cal. Acad. Sci. Ser. 4,  
14; 332-333, 1925.

**Eleodes (Metablapylis) californica**

nBlaisdell, Pan. Pac. Ent. 5, 165-166,  
1927.

**Eleodes coloradensis, concinna**

nBlaisdell, Proc. Cal. Acad. Sci. Ser. 4,  
14, 380-381, 1925.

**Eleodes delicata**

nBlaisdell, Pan-Pac. Ent. 5, 164-165, '29.

**Eleodes distincta**

nBlaisdell, Proc. Cal. Acad. Sci. Ser. 4,  
14; 333-334, 1925.

**Eleodes extricata**

Wakeland, Ida. Res. B. 6, 32, 1926.

**Eleodes fuscipilosa**

nBlaisdell, Proc. Cal. Acad. Sci. Ser. 4,  
14, 376-377, 1925.

**Eleodes hispilabris**

Beamer, Brklyn Ent. Soc. B. 21, 39, '26.

nBlaisdell, Proc. Cal. Acad. Sci. Ser. 4,  
14, 384, 1925.

ibWakeland, Ida. Res. B. 6, 11-48, 1926.

**Eleodes inepta**

nBlaisdell, Proc. Cal. Acad. Sci. Ser. 4,  
14; 334-335, 1925.

**Eleodes mazatzalensis, morbosa**

nBlaisdell, Proc. Cal. Acad. Sci. Ser. 4,  
14, 335-336, 379-380, 1925.

**Eleodes opaca** (Plains false wireworm)\*

iKelly, Kans. Ext. B. 62, 23-25, 1929.

Throckmorton, Country Gentlem. 93;  
10, 53, 1928.

**Eleodes parowana**

nBlaisdell, Proc. Cal. Acad. Sci. Ser. 4,  
14, 374-375, 1925.

**Eleodes quadricollis, reducta**

nBlaisdell, Proc. Cal. Acad. Sci. Ser. 4,  
14, 373-374, 377-378, 1925.

**Eleodes snowi**

Blaisdell, Ent. News 36, 84, 1925.

**Eleodes spp.**

bBlaisdell, Pan-Pac. Ent. 2, 77-80, 1925.

Blaisdell, Pan Pac. Ent. 5, 163-166,  
1927.

Iddings, Ida. B. 135, 29, 1925.

iThrockmorton, C. Gentlm. 93; 10, 53,  
1928.

**Eleodes speculicollis**

nBlaisdell, Proc. Cal. Acad. Sci. Ser. 4,  
14, 382-383, 1925.

**Eleodes sulcipennis**

Wakeland, Ida. Res. B. 6, 33, 1926.

**Eleodes tricolorata**

Fletcher, Can. Ent. 61, 258, 1929.

**Eleodes wenzeli**

nBlaisdell, Proc. Cal. Acad. Sci. Ser. 4,  
14, 381-382, 1925.

**Elephant bug**, *see* **Calendra maidis**

- Elephantomyia alticola*  
 nAlexander, Ann. Ent. Soc. Amer. 18, 348-349, 1925.
- Elephantomyia banksi*  
 nAlexander, J. N. Y. Ent. Soc. 35, 273-274, 1927.
- Elephantomyia fumipes*  
 nAlexander, Ann. Ent. Soc. Amer. 21, 114-115, 1928.
- Elephantomyia tarsalba*  
 nAlexander, J. N. Y. Ent. Soc. 36, 363-364, 1928.
- Elis berlyi*  
 nBrimley, Ent. News 38, 238, 1927.
- Elis caracasana*  
 nRohwer, J. Wash. Acad. Sci. 17, 154-155, 1927.
- Elis haemorrhoidalis*.  
 Box, Porto Rico Dept. Agr. J. 9, 334-336, 1925.
- Elis* sp.—Key  
 Brimley, Ent. News 38, 236-237, 1927.
- Elis xanthonotus*  
 lBox, Porto Rico Dept. Agr. J. 9, 337, 1925.
- Ellabella* n. gen., *editha*  
 nBusck, Proc. Ent. Soc. Wash. 27, 46-48, 1925.
- Ellatodon*—n. gen.  
 nCaudell, P. U. S. N. M. 71; 3, 30, 1928
- Elliptera tennesa*  
 nAlexander, Ins. Insc. Mens. 14, 114-115, 1926.
- Ellopiia athasaria*  
 Houser, J. Ec. Ent. 20, 299-301, 1927.
- Ellopiia fervidaria*  
 iJaenicke, Four L Lumber News 11: 16, 20, 1929.
- Ellopiia fiscellaria* (Hemlock spanworm)\*  
 Caesar & Ross, Ont. Ent. Soc. R. 58, 24, 1928.  
 iDibble, Mich. Quar. B. 8, 145-148, 1926.  
 Fracker, J. Econ. Ent. 18, 837, 1925.  
 Fracker, Wis. Dept. Agr. B. 82, 74-77, 1927.
- ibFracker & Granovsky, J. For. 26, 12-33, 1928.  
 Perison, Me. For. Serv. B. 5, 69, 1927.
- iPettit, Mich. Ent. R. 1926, 1-5, 1926.  
 iPettit, Mich. St. Bd. Agr. R. 65, 261-264, 1926.
- Swaine, Can. Dept. Agr. Pam. 97, 13, '28.
- Ellopiia fiscellaria*—control by airplane dusting  
 iClark, Wis. B. 396, 95-96, 1927.  
 Fracker & Granovsky, J. Ec. Ent. 20, 287-294, 1927.
- iFracker & Granovsky, Wis. Hort. 17, 138-139, 1927.  
 Fracker & Granovsky, Amer. For. & For. Life 33: 406, 587-588, 840, 1927.
- ibFracker & Granovsky, J. For. 26, 12-33, 1928.  
 Harrington, Amer. Forests 32, 564, 1926.
- iRussell, Morrison & Ebling, Wis. B. 388, 65-67, 1926.
- Ellopiia somniaria* (Oak spanworm)  
 Hearle, Ont. Ent. Soc. R. 59, 34, 1929.  
 Caverhill, B. C. Dept. Lands For. Br. R. f. 1929, B 15.
- Elm bark beetle, *see* *Hylurgopinus rufipes*
- \*Elm borer, *see* *Saperda tridentata*
- \*Elm case bearer, *see* *Haploptilia limosipennella*
- \*Elm cockscomb gall, *see* *Colopha ulmicola*
- Elm aphid, *see* *Eriosoma ulmi*
- Elm insects  
 Peirson, Me. For. Serv. B. 5, 58-59, 1927.
- \*Elm leaf beetle, *see* *Galerucella luteola*
- \*Elm leaf miner, *see* *Kaliosysphinga ulmi*
- \*Elm sawfly, *see* *Cimbex americana*
- Elm scale, *see* *Gossyparia spuria*
- \*Elm scurfy scale, *see* *Chionaspis americana*
- Elm snout beetles, *see* *Magdalis barbata*, and *M. armicollis*
- \*Elm spanworm, *see* *Ennomos subsignarius*
- Elminae (*Stenelmis*?)  
 iWest, Ann. Ent. Soc. Amer. 22, 697-702, 1929.
- Elymiotis boisil* 7, *corana* 4, *donatian* 6-7, *lucipina* 6, *morana* 5.  
 nSchaus, P. U. S. N. M. 73; 19, 1928.
- Elmis maugei*, *quadrinotatus*  
 West, Ann. Ent. Soc. Amer. 22, 703-704, 706-707, 1929.
- Embaphion contractum*  
 Benedict, Pan-Pacific Ent. 4, 46, 1927.
- Embia major*  
 iFernald, Applied Ent. ed. 2, 74, 1926.

- Emesa (Emesa) annulatus**  
iMcAtee & Malloch, P. U. S. N. M. 67;  
Art. 1, 40, 1925.
- Emesa brevipennis**  
Rau, St. Louis Acad. Sci. Tr. 25, 191,  
1927.
- Emesa diffinis** 46, **mantis** 41., **marmoratus**  
41, **minor** 43, **praecellens** 42, **rapax** 45,  
**spectrum** 44, **testaceus** 45; niMcAtee  
& Malloch, PUSNM 67; 1, 1925.
- Emesaya** 74, **apiculata** 81, **bansko** 77,  
**brevicoxa** 77, **brevipennis** 78, **incisa**  
78, **lineata** 81, **manni** 83, **modica** 81,  
**pollex** 82, **spp.**—key 76; McAtee &  
Malloch, PUSNM 67; 1, 1925.
- Emesis cronina, vimena**  
nSchaus, Proc. Ent. Soc. Wash. 30, 49, '28.
- Emesopsis nubilus**  
McAtee & Malloch, PUSNM 67; 1, 13,  
1925.
- Emphor bombiformis**  
Davis, Brklyn Ent. Soc. B. 21, 127, 1926.  
bRobertson, Psyche 32, 278-282, 1925.
- Emphoropsis citulus**  
nCockerell, J. N. Y. Ent. Soc. 37, 442, '29.
- Emphusis bulbifer**  
niFunkhouser, Brklyn Ent. Soc. B. 22,  
106-107, 1927.
- Emphytina pallipes, tener**  
Rohwer, Proc. Ent. Soc. Wash. 29, 66-  
67, 1927.
- Emphytus canadensis (Violet sawfly)**  
Pettit, Mich. St. Bd. Agr. R. 63, 214,  
1924.
- Emphytus cinctus (Curled rose slug)\***  
Gorham, Ont. Ent. Soc. R. 58, 70-72, '28.
- Empicoris armatus** 20, **barberi** 19, **culici-**  
**formis** 23, **errabundus** 24, **nudus** 22,  
**orthoneuron** 18, **parshleyi** 22, **reticu-**  
**latus** 20, **rubromaculatus** 16, **spp.**—  
key 15, **subparallelus** 21, **vagabundus**  
17, **winnemana** 19. niMcAtee &  
Malloch, P.U.S.N.M. 67; 1, 1925.
- Empis areobatica**  
Wheeler, J. Hered. 15, 492, 1925.
- Empis deterra**  
nWalley, Can. Ent. 59, 96-97, 1927.
- Empoa malini**  
niDeLong, J. Ec. Ent. 19, 469-470, 1926.
- Empoa pomaria**  
Stear, Penn. Acad. Sci. Proc. 2, 54-58,  
1927.
- Empoa rosae (Rose leaf hopper)\***  
Brittain, N. S. Dept. Nat. Resource B.  
12, 45, 1927.
- iBritton and Zappe, Conn. B. 292, 138-  
139, 1927.
- Dean, Cal. Dept. Agr. Sp. Pub. 54, 43,  
1925.
- Fernald, Applied Ent. ed. 2, 194, 1926.
- McDaniel, Mich. Q. B. 10, 171-172,  
1928.
- Stear, J. Ec. Ent. 18, 633-636, 1925.
- Empoasca emarginata**  
niOsborn, Annals Carnegie Mus. 18, 286,  
1928.
- Empoasca fabae (Potato leafhopper)**  
Cooper, Ky. R. 41, 31, 1929.
- Crosby, et al, N. Y. C. B. 498, 40-42,  
1929.
- Davis, Ind. R. f. 1926, 28, 1927.
- DeLong, J. Ec. Ent. 21, 183-188, 1928.
- biDudley & Fluke, Wis. Res. B. 82, '28, 16p.
- iJewett, Ky. B. 293, 157-172, 1929.
- Lawson, Ann. Ent. Soc. Amer. 19, 73,  
1926.
- lbMonteith, & Hollowell, J. Agr. Res.  
38, 649-677, 1929.
- Osborn, J. Ec. Ent. 19, 194, 1926.
- Osborn, Ref. Bk. Sugar Indus. of World  
4, 48, 1926.
- Pettit, Mich. Sp. B. 33-34, 1929.
- Watson, Fla. R. f. 1926, 45 R-46 R.
- Watson, Fla. Dept. Agr. Quar. B. 39: 3;  
57-58, 109, 1929.
- Empoasca fabae and alfalfa "yellow top"**  
Granovsky, J. Ec. Ent. 21, 261-266,  
1928.
- Empoasca fabae and hopperburn**  
Granovsky, Phytopathol. 16, 413-421,  
1926.
- Empoasca flavescens**  
Granovsky, Phytopathol. 16:1, 76, 1926.
- Empoasca mali (Apple leafhopper)\***  
Bailey, Comm. Agr. Vt. Bien. R. 13, 61,  
1926.
- Bourne, Mass. Fruit Grow. Assoc. R. 35,  
121-122, 1929.
- iBritton & Zappe, Conn. B. 292, 138-139,  
1927.
- iCaesar, Ont. Dept. Agr. B. 325, 56-58,  
1927.
- iChambers, Wis. Hort. 20, 88-89, 1929.
- Compton, Ill. C. 297, 14-15, 1925.

**Empoasca mali** *Cont'd*

- Compton, Ill. Hort. Soc. Trans. 59, 305-306, 1926.  
 Compton, Ill. Hort. Soc. Trans. 60, 416-417, 1927.  
 Cutright, Ohio St. Hort. Soc. Proc. 60, 185, 1928.  
 Dean, Kan. Ent. Com. Bien. R. 10, 29, 1925-26, 1927.  
 DeLong, Ohio Veg. Gr. Assoc. Proc. 13, 76-82, 1928.  
 DeLong, Amer. Potato Grow. 6, 109-111, 1929.  
 Packler, Tenn. R. 39, 33, 1927.  
 Headlee, N. J. St. Hort. Soc. Proc. f. 1928, 47-48.  
 Houser, Ohio St. Hort. Soc. Proc. 60, 105-106, 1927.  
 Ingerson, Ohio St. Hort. Soc. Proc. 59, 83, 1926.  
 Metcalf, N. C. R. 50, 108, 1927.  
 Musser, Moore & Pepper, S. C. Ext. B. 83, 20, 1927.  
 Parrott, Proc. N. Y. Hort. Soc. 72, 5-6, 1927.  
 Phipps, Me. Ext. C. 100, 3-4, 1929.  
 Talbert, Amer. Prod. Grow. 4; 8, 9, '29.  
**Empoasca olivata**, *rubromaculata*  
 niOsborn, Annals Carnegie Mus. 18, 285, 287-288, 1928.  
**Empoasca spp. and virus diseases**  
 Granovsky, Phytopathology, 16, 416-420, 1926.  
**Empoasca unicolor**  
 iBrittain, N. S. Dept. Nat. Res. B. 12, 45-46, 1927.  
**Empoasca viridescens**  
 Weese, Ill. Biol. Mon. 9; 4, 15-16, 1924.  
**Empretia stimulea**, *see* *Sibine stimulea*  
 (Saddle-back caterpillar)\*  
**Empusa fresenii**  
 Newell, Fla. R. f. 1927-28, 77 R.  
**Emulsions**, *see* *Spray materials—Emulsions*  
**Encarsia basicincta**  
 nGahan, PUSNM 71; 4, 20-21, 1928.  
**Encarsia floroscuteillum**  
 bEarle, Facts About Sugar 22, 1010, 1927.  
**Encarsia meritoria**  
 nGahan, PUSNM 71; 4, 19-20, 1927.  
**Enchemicrum—n. gen., australe**  
 nPate, Ent. News, 40, 219-220, 1929.

**Enchotypa concinna**, *fairmairii*

- iMetcalf & Bruner, Brklyn, Ent. Soc. B. 20, 206, 207, 1925.  
**Enchotypa gen.**  
 Metcalf, Ent. News 38, 15, 1927.  
 Metcalf & Bruner, Brklyn Ent. Soc. B. 20, 206, 1925.  
**Encyrtapsis semirufus**  
 nGahan, P.U.S.N.M. 71, 4, 10-12, 1927.  
**Encyrtidae**  
 iLDozier, Univ. of Del., Del. Notes, 4th ser. 1926: 61-66.  
 niTimberlake, P.U.S.N.M. 69; 3, '26, 34p.  
**Encyrtioidea sidneyi**  
 nGirault, Ins. Insc. Mens. 14, 59, 1926.  
**Endothenia heinrichi**  
 nMcDunnough, Can. Ent. 61, 270, 1929.  
**Endothenia kingi**  
 nMcDunnough, Can. Ent. 59, 33-34, 1927.  
**Endothenia sordulenta**, *spp.—key*  
 niHeinrich, USNMB 132, 100-103, 1926.  
**Eneodes, n. gen., hirsuta**  
 Fisher, PUSNM 68, 22, 31-32, 1926.  
 \*Englemann-spruce beetle, *see* *Dendroctonus engelmanni*.  
 \*English grain aphid, *see* *Macrosiphum granarium*  
**Eniglaea apiata**—(Cranberry blossom worm)  
 Beckwith & Driggers, N. J. R. 1926-27, 138-139, 1928.  
 Headlee, N. J. R. 46, 419, 1925.  
**Enitharonecta**—Subgenus new  
 niHungerford, Ann. Ent. Soc. Amer. 21, 143, 1928.  
**Enkrates**—Change of name  
 Rehn, Ent. News 38, 148, 1927.  
**Ennomos magnarius**  
 Perison, Me. For. Serv. B. 5, 42, 1927.  
**Ennomos subsignarius** (Elm spanworm)\*  
 Felt, N. Y. St. Mus. B. 274, 94, 1928.  
**Enoclerus dichrous**, *flavibasis*, *inimicoides*  
 nChapin, PUSNM 71; 2, 2-4, 1928.  
**Enoclerus lecontei**  
 Boving, Proc. Ent. Soc. Wash. 30, 93-95, 1928.  
**Enoclerus sphegeus**  
 Keen, Cal. Dept. Nat. Resources B. 7, 73, 1928.  
**Enocomia maestralis**  
 nMetcalf, Psyche 32, 101, 1925.

**Enodia portlandia**

Rogers, Brklyn. Ent. Soc. B. 23: 86, '28.  
Skinner, Ent. news 37, 42, 1926.

**Enoplognatha marmorata**

Auten, Ann. Ent. Soc. Amer. 18, 241, 1925.

**Ensina conflicta**

niCurran, Amer. Mus. Nov. 339, 11-12, '29.

**Entechnia taurea (White-banded mining bee)**

Rau, St. Louis Acad. Sci. Tr. 25, 175-178, 1927.

iRau, Psyche, 36, 169-181, 1929.

**Entomobrya cubensis**

nbiPolsom, PUSNM 72; 6, 7-8, 1928.

**Entomogenous fungi**

Berger, Fla. B. 183, 302, 1927.  
Hume, Cultivation of citrus fruits, 1926, 537-546.

**Entomological code**

Pan Pacific Ent. 2, 214-215, 1926.

**Entomological Collections**

Felt, N. Y. St. Mus. B. 267, 46-47, 1926.  
Grunsky, Cal. Acad. Sci. Proc. ser. 4, 14: 519, 1926.  
Howard, Ent. News 38, 186-7, 1927.  
Osborn et al, Ann. Ent. Soc. Amer. 20, 140-148, 1927.  
Van Duzee, Pan Pac. Ent. 5, 13, 1928.

**Entomological commission—Kans.**

Breakey, Kans. Ent. Com. Bien. R. 10, 6-18, 1927.  
Hungerford, Kans. St. Hort. Soc. Bien. R. 39, 25-31, 1928.  
— Kans. St. Bd. Agr. Bien. R. 25, 243-244, 1927.  
— Kans. St. Bd. Agr. Bien. R. 26, 222-223, 1928.

**Entomological ecology—Indian corn plant.**

Forbes, Ill. Nat. Hist. Surv. B. 16, Art. 7, 447-457, 1927.

**Entomological enigma**

iFerris, Can. Ent. 59, 279-281, 1927.

**Entomological exhibits, wax**

iWood, Ont. Ent. Soc. R. 59, 52-55, 1929.

**Entomological record—Canada**

Criddle, Ont. Ent. Soc. R. 55, 89-106, 1925; R. 57, 47-62, 1927; R. 58, 92-103, 1928; R. 59, 110-124, 1929.

**Entomological sentiment.**

Essig, Ann. Ent. Soc. Amer. 22, 335-340, 1929.

**Entomological service**

iGibson, Civil Service Review, Canada 1: 4, 282-287, 1929.

**Entomological station Tashkent, Usbekistan**

Cockerell, J. Ec. Ent. 20, 834-837, 1927.

**Entomological station, Treesbank, Manitoba.**

biBird, Ecology 8, 207-220, 1927.

**Entomological survey of the Pacific**

Dean, Science, 65, 565-566, 1927.

**Entomological trip to Guatemala**

Aldrich, Smith. Misc. Col. 78; 7, 94-98, 1926.

**Entomologists**

Howard, Ent. News 37, 300-301, 1926.

**Entomologists and entomology**

Torre-Bueno, Brooklyn Ent. Soc. B. 24, 41-42, 1929.

**Entomologists and foreign travel.**

Crossman, J. Ec. Ent. 18, 164, 1925.

**Entomologists—Biography—Bibliography**

Wade, Annals Ent. Soc. Amer. 21, 489-520, 1928.

**Entomologists—General standing**

Howard, Science 68, 589-590, 1928.

**Entomologist's handbook**

Smith, J. Ec. Ent. 22, 706, 1929.

**Entomologists—Hawaii—Trips**

Swezey, Internat. Soc. Sugar Cane Tech. Proc. 2, 74-75, 1927.

**Entomologists in commercial fields**

Sanders, J. Ec. Ent. 18, 163, 1925.

**Entomologists—Modern and ancient**

Sherman, Ent. Soc. B. C. Proc. 21, 20-22, 1924.

**Entomologists of the 18th century**

iWeiss, Sci. Monthly 23, 558-564, 1926.

**Entomologists of the Renaissance**

biWeiss, J. N. Y. Ent. Soc. 35, 193-208, 1927.

**Entomologists—Orchard entomologist**

Ross, Quebec Soc. Protec. Plants R. 16, 67-72, 1925. •

**Entomologists—Respiration**

Wade, Proc. Ent. Soc. Wash. 31, 139-140, 1929.



**Entomology**

iComstock, *Introd. to entom.* ed. 2.  
1044 p. 1925.

iWeldon, *Economic Biology*, 1929, 48-152.

ibWellhouse, *How insects live*, 1926, 435p.

Wyss, *Living Creatures*, 1927, 406 p.

**Entomology, Agricultural—France**

Trouvelot, *Internat. Cong. Ent.* 4, Tr. 2, 888-896, 1929.

**Entomology, Applied**

Fernald, *Applied entomology*, ed. 2, 1926, 395 p.

Howard, *Agr. Hist.* 3, 131-137, 1929.

Wardle, *Prob. Appl. Ent.* 1929, 587 p.

**Entomology—Bartholomew's *DeProprietatibus Rerum***

bWeiss, *Ent. News* 39, 190-191, 1928.

**Entomology, Commercial**

Morrill, *J. Ec. Ent.* 18, 707-716, 1925.

**Entomology—Congresses**

Bradley, *Science*, 68, 81-82, 1928.

H., *Sci.* 68, 106-107, 1928.

Howard, *Ent. News* 36, 286, 1925.

Howard, *J. Ec. Ent.* 18, 865, 1925.

Howard, *Ann. Ent. Soc. Amer.* 19, 115-118, 1926.

Johannsen, *Ent. News* 38, 318-319, '27.

Mackie, *Cal. Dept. Agr. Mo. B.* 17, 572-573, 1928.

Thone, *Sci. Supp.* 68, 1757, x-xiv, 1928.

— *J. Ec. Ent.* 20, 847-848, 1927.

— *Sci. Supp.* 68, 1755, x-xii, 1928.

— *Science* 69, 615-616, 1929.

**Entomology — Congresses — 4th International.**

iHerrick, *Sci. Mo.* 27, 375-384, 1928.

Herrick, *Science n. s.* 68, 237-244, 1928.

iHoward, *Sci. News Letter* 14: 385, 109-110, 1928.

Johannsen, *Cornell Countrym.* 26; 1, 6-7, 1928.

Jordan, *Ent. News* 39, 59, 1928.

Sacay, *Philippine Agr.* 17, 381-384, '28.

— *Ent. News* 39, 221-222, 1928.

— *Ent. News* 39, 252-256, 1928.

— *Sci. Monthly* 26, 571-574, 1928.

**Entomology — Congresses — Rocky Mt.**

Gillette, *Colo. Ent. C.* 47, 11, 1925.

List, *J. Ec. Ent.* 19, 873, 1926.

List, *J. Ec. Ent.* 20, 742-743, 1927.

— *Ent. News* 40, 341-342, 1929.

**Entomology—Courses in American colleges**

bSmith, *Kans. St. Agr. Col. B.* 12: 1, 1928, 23 p.

Smith, *Kans. Ent. Soc. J.* 2, 22-23, 1929.

**Entomology—Early American papers**

bWeiss, *J. N. Y. Ent. Soc.* 36, 293-297, '28.

**Entomology—Economic**

Burgess, *J. Ec. Ent.* 20, 67-68, 1927.

Cobbey, *Minn. R.* 37, 37-38, 1929.

Essig, *Pacific Coast Ent. Soc. Proc.* 2, 59, 1926.

Essig, *Ann. Ent. Soc. Amer.* 20, 451-454, 1927.

bFelt, *School, guide to insects*, 1925.

iFelt, *N. Y. St. Mus. Hdbk* 6, 1929, 147 p.

iFernald, *Applied entomology*, ed. 2, 1926, 395 p.

Herrick, *Manual inj. insects*, 1925, 489 p.

Manter, *J. Ec. Ent.* 20, 76-78, 1927.

iMetcalf & Flint, *Destructive & useful insects*, 1928, 561 p.

**Entomology, Economic—Central Europe**

Webber, *J. Ec. Ent.* 20, 301-310, 1927.

**Entomology, Economic—Finland**

Saalas, *J. Ec. Ent.* 22, 699-704, 1929.

**Entomology, Economic—Holland—1925.**

Schoevers, *Phytopathology*, 19, 607-608, 1929.

**Entomology, Economic—Patent literature in**

Roark, *J. Ec. Ent.* 20, 640-641, 1927.

**Entomology—Educational prominence**

Howard, *Amer. Nurseryman*, 48: 6; 142, 1928.

**Entomology—Egypt**

Efflatoun, *Internat. Cong. Ent.* 4, Tr. 2, 737-745, 1929.

**Entomology—Elementary**

Knight, *Ent. News* 37, 144-148, 1926.

iNeedham, *Elementary Lessons on Insects*, 1928, 210 p.

**Entomology—Engineering**

Chamberlin, *The Timberman*, 30: 12; 174, 1929.

**Entomology—Experimental method in**

bHermes, *J. Ec. Ent.* 22, 45-58, 1929.

**Entomology—Extension**

Kelly, *J. Ec. Ent.* 18, 177, 1925.

Safro, *J. Ec. Ent.* 22, 553-556, 1929.

**Entomology—Extension—Mich.**

Pettit, Mich. St. Bd. Agr. R. 66, 243-245, 1927.

**Entomology—Fables of John Gay.**

Weiss, Can. Ent. 57, 183-185, 1925.

**Entomology—Fanning and Washington Islands.**

Hermes, Pan-Pacific Ent. 2, 49-54, 1925.

**Entomology—Garibaldi Park, B. C.**

Hardy, B. C. Provin. Mus. R. f. 1926, C 19-C 25, 1927.

**Entomology—Haiti**

iWolcott, Entomologie d'Haiti, 1927, 440 p.

**Entomology—Iceland.**

Boving, Proc. Ent. Soc. Wash. 27, 17-35, 1925.

**Entomology—Idaho**

— Ida. B. 142, 1926, 16-17.

**Entomology—Illustrations, accrediting**

Howard, Ent. News 40, 23-24, 1929.

**Entomology—Importance**

Howard, Science 68, 143-145, 1928.

Moore, Md. Acad. Sci. B. 6: 3, 12-14, 1925.

**Entomology—Index**

Horn, Ent. News 38, 77, 1927.

**Entomology—Kans. Historical note**

Barnett, Kans. Ent. Soc. J. 2, 90-93, 1929.

**Entomology—Logging engineer—Oregon**

Chamberlin, Timberman, 30; 12, 174, 1929.

**Entomology—Md.**

Cory, Md. Ext. R. 14, 59-60, 1929.

**Entomology—Mich.**

Pettit, Mich. St. Bd. Agr. R. 63, 209-219, 1924; R. 66, 127-129, 1927; R. 66, 243-245, 1927.

**Entomology—Nebraska**

Crawford, Neb. C. 26, 91, 1925.

**Entomology—Needs of the World as to**

Howard, Ann. Ent. Soc. Amer. 18, 1-21, 1925.

Howard, Smithsonian Inst. R. f. 1925, 355-372, 1926.

**Entomology, Netherlands**

Corporaal, Internat. Cong. Ent. 4, Tr. 2, 357-360, 1929.

**Entomology—New day in**

Cory, J. Ec. Ent. 19, 603-606, 1926.

**Entomology—New York**

Felt, N. Y. St. Mus. B. 267, 37-48, 1926.

Leonard, N. Y. C. Mem. 101, 1928. 1121 p.

**Entomology, Nomenclature, see Zoology—Nomenclature**

**Entomology—Opportunities in**

Davis, Ind. Acad. Sci. Proc. 35, 299-302, 1926.

Henderson, Cal. Countrym. 12; 2, 8 & 17, 1925.

**Entomology, Popular**

Bradley, Insect Life, 1925, 214 p.

iClarke, Sci. Amer. 138, 148-150, 1928.

iJones, Better Homes & Gard. 6: 6, 20-21, 1928.

**Entomology—Potentialities of**

Chapman, Science 69, 413-419, 1929.

**Entomology—Prairie problems**

Strickland, Sci. Agr. 6, 37-40, 1925.

**Entomology—Preventive**

Smith, Sci. Mo. 29, 177-184, 1929.

**Entomology—Publications—Editing.**

Torre-Bueno, Brooklyn Ent. Soc. B. 24, 15-19, 1929.

**Entomology—Relation to agriculture**

Emerson, Purdue Agr. 19, 54, 1925.

**Entomology—Research**

Metcalf, N. C. R. 49, 68-69, 1926.

**Entomology—Retrospective and prospective**

Gibson, J. Ec. Ent. 20, 47-62, 1927.

**Entomology—Russian—development.**

Parfentjey, J. N. Y. Ent. Soc. 37, 153-158, 1929.

**Entomology—Schwarz letters**

Sherman, J. N. Y. Ent. Soc. 37: 3, 181-392 1929.

**Entomology—Southern States**

Harned, J. Ec. Ent. 21, 59-84, 1928.

Newell, J. Ec. Ent. 22: 732-735, 1929.

Thomas, J. Ec. Ent. 22, 736-743, 1929.

**Entomology—Systematic**

Bequaert, Brklyn. Ent. Soc. B. 24, 98-192, 1929.

Brues, Psyche 36, 13-20, 1929.

Ferris, Pacific Coast Ent. Soc. Proc. 2, 59, 1926.

iFerris, Stanford Univ. Pub. Univ. Ser. Biol. Sci. 5: 3, 1928, 169 p.

Forbes, Psyche 36, 21-27, 1929.

**Entomology—Teaching**

Brittain, Quebec Soc. Protec. Plants R. 16, 60-66, 1925.

Knight, J. Ec. Ent. 22, 213-217, 1929.

Stewart, J. Ec. Ent. 22; 777-781, 1929.

**Entomology—U. S.—Rise of**

Howard, Agr. History 3, 131-139, 1929.

**Entomology, U. S. Bureau of**

Howard, The Americana 1925, 251-255; 1926, 268-271; 1927, 303-307; 1928, 272-276; 1929, 268-273.

**Entomology—U. S. Bureau of**

— New Internat. Yearbook for 1925, 217-218, for 1926, 245-247; for 1927, 272-238; for 1928, 236-238.

**Entomology—Upper Santa Ana River, Wash.**

bIngles, J. Ent. & Zool. 21, 57-96, 1929.

**Entomology and limnology**

Mann, N. Y. Cornell Rept. 41, 36-37, 84-89, 140-143 1928.

**Entomology and Pearson's probability theorem**

Hartzell, J. Ec. Ent. 22, 202-209, 1929.

**Entomology for Boy Scouts**

iBradley, Insec. Life, 1925, 214p.

Cain, J. Ec. Ent. 20, 679-681, 1927.

**Entomology for rural schools—Quebec**

Maheux, Ont. Ent. Soc. R. 55, 73-75, 1925.

**Entomology in American Colleges—Courses**

Smith, Kans. State Agr. Coll. B. 12: 1, 23 p., 1928.

Smith, Kans. Ent. Soc. J. 2, 22-23, 1929.

**Entomology in Bestiary of Philippe de Thaum**

Weiss, Ent. News 39, 119-123, 1928.

**Entomology in relation to industry**

DeLong, Sci. Monthly 27, 429-434, 1927.

**Entomology in Silviculture**

Jaenicke, Jour. Forestry 23, 376, 1925.

Peirson, Jour. Forestry 23, 372, 1925.

**Entomology of Aristotle**

bWeiss, J. N. Y. Ent. Soc. 37, 101-109, 1929.

**Entomology of Brickell's Nat. Hist. of N.C.**

Weiss, N. Y. Ent. Soc. Jour. 36, 185-188, 1928.

**Entomology of Sir Thomas Browne's Pseudodoxia Epidemica**

Weiss, Ent. News 39, 33-35, 1928.

**Entomophagous insects**

Smith, Internat. Cong. Ent. 4, Tr. 2, 191-198, 1929.

**Entomophthora sphaerosperma**

Brittain, Ont. Ent. Soc. R. 59, 8, 1929.

Dozier, Del. Ext. C. 26, 5, 1929.

iDustan, J. Ec. Ent. 20, 68-75, 1927.

iGilliat, Proc. Acadian Ent. Soc. 10, 46-54, 1925.

**Entomoscelis adonidis (Red turnip beetle)**

King, Sci. Agr. 9, 385, 1929.

**Enypia moileiti**

niBlackmore, Can. Ent. 58, 101-103, 1926.

**Eogeacris—n. gen.**

niRehn, Phila. Acad. Nat. Sci. Proc. 80, 198-200, 1928.

**Eophlebomyia**

Cockerell, Psyche 32, 229-230, 1925.

**Eophrissopolia, n. gen., acroglossoides**

Townsend, Ins. Insc. Mens. 14, 36-37, '26.

**Eoponera—n. gen., berryi**

nCarpenter, Wash. Acad. Sci. J. 19, 301, 1929.

**Eosentomon yosemitensis**

nEwing, Proc. Ent. Soc. Wash. 29, 146-147, 1927.

**Epargyreus tityrus (Giant skipper)**

Buckle, Can. Ent. 61, 265-266, 1929.

Williams, Trans. Amer. Ent. Soc. 53, 262, 1927.

**Eparmene cubana**

niMyers, Harvard Biol. Lab. Studies on Cuban Insects 1, 20-21, 1928.

**Epermenia bidentata, infracta**

nBraun, Can. Ent. 58, 48-49, 1926.

**Ephelia—Key to species**

Alexander, Brklyn Ent. Soc. B. 22, 57, '27.

**Ephemera guttulata**

Kennedy, Biol. Bul. 48, 393, 1925.

iKennedy, Can. Ent. 58, 61-63, 1926.

**Ephemerella—Key to subgenera**

Needham, Ann. Ent. Soc. Amer. 20, 108, 1927.

**Ephemeridae**

Fernald, Applied Ent. ed. 2, 65-67, 1926.

nMcDunnough, Can. Ent. 57, 168-176, 185-192, 1925.

iNeedham & Murphy, Lloyd Lib. B. 24, 5-79, 1924.

bSeemann, J. Ent. & Zool. 19, 40-42, 1927.

**Ephemeroptera**

iMcDunnough, Roy. Soc. Canada Trans. ser. 3, sec. 5, v. 19, 207-224, 1925.

McDunnough, Can. Ent. 60, 238-240, '28.

**Ephestia arizonella**

nDyar, Proc. Ent. Soc. Wash. 30, 141, '28.

**Ephestia cautella (Fig moth)**

Bottimer, J. Agr. Res. 33, 803, 1926.

bHagan, J. Ec. Ent. 22, 900-909, 1929.

Horton, U. S. F. B. 1031; rev. 1926, 34.

Simmons & Reed, J. Ec. Ent. 22, 595-596, 1929.

**Ephestia elutella**

DeOng, Pan-Pacific Ent. 2, 46, 1925.

Essig, Insects of Western No. Amer. 1926, 711.

**Ephestia kuehniella (Mediterranean flour moth)\***

iBack & Cotton, U. S. F. B. 1260; rev. Dec. 1925, 20-22.

iBrittain, N. S. Dept. Nat. Resource B. 12, 122-123, 1927.

Cooley, Mont. B. 170, 29, 1925.

D, M.D., Rural N. Y. 85, 957, 1926.

Fernald, Applied Ent. ed. 2, 251, 1926.

Flanders, J. Ec. Ent. 22, 245-248, 1929.

iGibson & Twinn, Can. Dept. Agr. B. 112, 29, 1929.

Hass, Amer. Miller 57, 993, 1929.

bRichardson, J. Agr. Res. 32, 895-929, 1926.

iScott, Millers Rev. 93: 9, 19-20, 1929.

White, Proc. Ent. Soc. Wash. 29, 147-148, 1927.

White, J. Wash. Acad. Sci. 18, 384, 1928.

iWhitehead, J. Agr. & Hort. 31, 69, 1927.

Whiting, Amer. Nat. 61, 450-456, 1927.

**Ephialtes nigroaeneus, polychromus**

niCushman, Proc. U. S. Nat. Mus. 73; 13, 10-11, 1928.

**Ephistemus punctatus**

nBlatchley, Can. Ent. 57, 165, 1925.

**Ephoron album**

Needham and Christenson, Utah B. 201, 16, 1927.

**Ephoron leukon**

McDunnough, Can. Ent. 58, 184-185, '26.

**Ephuta festata, furcillata**

nMickel, Psyche 35, 22-27, 1928.

**Ephydra pacifica**

nCresson, Ent. News 36, 167, 1925.

**Ephydridae**

Cresson, Trans. Amer. Ent. Soc. 51, 227-258, 1925.

nCresson, Ent. News 36, 165-167, 1925.

**Epiblema benignata**

niDunnough, Can. Ent. 57, 21, 1925.

**Epiblema carolinana (Golden-glow borer)**

iThompson, Ont. Ent. Soc. R. 58, 73-75, 1928.

**Epiblema discretivana**

Bottimer, J. Agr. Res. 33, 816, 1926.

**Epiblema otisana**

iDrake & Decker, Iowa C. 103, 15-16, '27.

**Epiblema scudderiana, strenuana**

Ellis, J. Agr. Res. 30, 788-789, 1925.

**Epiblema tripartitana**

Bottimer, J. Agr. Res. 33, 815-816, 1926.

**Epicaerus imbricatus (Imbricated snout beetle)\***

Chittenden, J. Ec. 18, 638, 1925.

**Epicauta cinerea (Gray blister beetle)\***

Spittall, Proc. Acadian Ent. Soc. 10, 62, 1925.

**Epicauta foxi**

nVan Dyke, Bklyn. Ent. Soc. B. 24, 127-129, 1929.

**Epicauta heterodera**

iWatson, Fla. Dept. Agr. Quar. B. 39; 3; 63-64, 1929.

**Epicauta impressifrons**

nVan Dyke, Brklyn. Ent. Soc. B. 23: 262, 1928.

**Epicauta lemniscata**

iIngram, U. S. D. A. Leaf. 12, 1927, 5p.

**Epicauta maculata (Spotted blister beetle)\***

Cooley, Mont. B. 170, 27, 1925.

Hawley, Utah, C. 54, 32-34, 1925.

**Epicauta pardalis**

Baker, Wash. R. f. 1928, 13.

**Epicauta pennsylvanica (Black blister beetle)\***

iCaesar, Ont. Dept. Agr. B. 325, 59-60, 1927.

iChambers, Wis. Hort. 14:1, 26, 1928.

**Epicauta puncticollis**

iHawley, Utah C. 54, 32-34, 1925.

**Epicauta vittata (Striped blister beetle)\***

iCaesar, Ont. Dept. Agr. B. 325, 59-60, 1927.

**Epicheiloneurus beerwahi**

nGirault, Ins. Inscr. Mens. 13, 100, 1925.

**Epicnaptera americana (Lappet moth)\***

Barnes & Benjamin, Pan-Pacific Ent. 1,  
164-168, 1925.

**Epicordulia princeps—Oviposition**

Bromley, Brklyn. Ent. Soc. B. 23, 69,  
1928.

**Epidemia epixanthe**

Clark, Psyche 32, 297, 1925.

**Epiglaea apiata**

Beckwith, J. N. Y. Ent. Soc. 37, 409-  
416, 1929.

**Epigonatopus plesius, tenuis**

niFenton, P.U.S.N.M. 72; 8, 9, 1928.

**Epilachna borealis (Squash beetle)\***

Douglass, J. Ec. Ent. 19, 632-635, 1926.

Ladd, N. Y. C. Ext. B. 35, 22, 1929.

MacLeod, Penn. St. Ext. C. 122, 20, 1929.

Schoene, Va. R. 1919-1927, 48, 1928.

Spencer & Henderson, Va. Truck B. 5,  
412-413, 1925.

**Epilachna coloradella**

Trumble, Wash. St. Hort. Soc. Proc. 22,  
43-45, 1926.

**†Epilachna corrupta (Mexican bean beetle)\***

Arms, The Bean-Bag 7; 10, 12, 1925.

Ayres, Miss. B. 227, 36, 1925.

Barnhart, Ohio Ext. Serv. News 11; 2, 7,  
1925.

iBarre, S. C. R. 38, 46-49, 1925.

Barre, S. C. R. 39, 37, 1926.

iBarre, S. C. R. 40, 42-43, 1927.

iBarre, S. C. R. 41, 49-51, 1928.

Barre, S. C. R. 42; 61-62, 1929.

iBentley, Tenn. Dept. Agr. Bien. R.  
1923-24, 76, 1924.

iBerly, S. C. C. 32, 15, 1924.

iBrannon, N. C. Ext. Folder 22, 1926. 3p.

Burdette, N. J. R. 50, 180, 1929.

iCecil, N. Y. (Geneva) C. 96, 1928, 12p.  
bChapman & Gould, Va. Truck B. 65,  
677-697, 1928.

Chittenden, U. S. D. A. Ent. R. f. 1925,  
10-12.

Christie, Ind. R. 28, 23-24, 1926.

Compton, Canning Trade, 48; 52, 12,  
1925.

iCompton, Ill. C. 297, 41-42, 1925.

Cooper, Ky. R. 38, 15, 1926.

Cooper, Ky. R. 39, 19-20, 1927.

Cory, Md. Ext. Serv. News 11: 2, 2,  
1926.

iCory, Md. Agr. Soc. R. 13, 351-354, '28.  
Cory, Penin. Hort. Soc. Tr. 41, 84-85,  
1928.

Cory, Canning Trade, 51; 30, 18, 1929.

Cory, Md. Ext. Serv. News, 14; 2, 4,  
1929.

Cory, Penin. Hort. Soc. Tr. f. 1929, 18-  
20.

Cory, Penin. Hort. Soc. Trans. 42, 154-  
155, 1929.

iCory et al, Md. Ext. C. 64, rev. 1928,  
8 p; C. 72, 1929, 8 p; C. 73, 1929, 8 p.

iCrawford, N. C. Dept. Agr. B. Nov.  
1924, 12 p.

iDavis, Ind. C. 126, 1925, 11 p.

Davis, Ind. Acad. Sci. Proc. 41, 308-309,  
1925.

iDavis, Ind. R. f. 1926, 28, 1927.

Douglass, J. Ec. Ent. 21, 203-213, 1928.

iDozier, Del. Univ. Ext. C. 25, 1929, 7 p.  
Dustan, Canad. Hort. Fr. & Truck ed.,

50, 12, 263, 1927.

Eddy, J. Ec. Ent. 19, 239-248, 1926.

ilbEddy & Clarke, S. C. B. 258, 1929, 42p.

iEddy and McAlister, S. C. B. 236, 1927,  
38p.

Faracia, New Mex. R. 36, 19, 1925.

Felt, J. Ec. Ent. 22, 705, 1929.

Gardner & Merriman, The Bean-Bag 7;  
3, 1924.

Garrison, Market Grow. J. 45, 600-601,  
1929.

Gilbert, Bean-Bag J. 8; 7, 13-14, 1925.

Gillette, Colo. R. 38, 24, 1925.

Graf, J. Ec. Ent. 18, 116, 1925.

Gui, Ohio P. B. 14; 20, 1929.

iGuyton & Knull, Penn. Dept. Agr. B. 8:  
21, 1925, 6p.

Guyton & Knull, Pa. Dept. Agr. Gen.  
B. 447, 1927, 9 p.

Hadley, J. Ec. Ent. 20, 706-707, 1927.

ilHamilton, N. J. C. 216, 13p. 1929.

Headlee, N. J. St. Hort. Soc. Proc. 1928,  
57-58.

Hoerner, Colo. Ext. News Notes 8-9,  
1925.

Howard, Bean-Bag. J. 8; 12, 20-22,  
1926.

Howard, Science 65, 499-500, 1927.

Howard, J. Ec. Ent. 21, 178-182, 1928.

iHoward, U. S. D. A. YB 1927, 460-463.  
1928.

- Howard, U. S. D. A. Ent. R. f. 1925, 20-21.  
Hudson & Wood, Ont. Ent. Soc. R. 58, 41-42, 1928.
- iJ. D. L., Rur. N. Y. 87, 866-867, 1928.
- iJewett, Ky. C. 36, 1-18, 1927.
- Jones, Ohio Ext. B. 75, 1928, 16p.
- Lathrop, S. C. Clemson Agr. Col. Ext. C. 62, 1925 4 p.
- Lieber, Ind. Dept. Conserv. R. 7, 50-51, 1925; R. 9, 52-53, 1927; R. 10, 65, 1928.
- List, Colo. Ent. C. 47, 43-56, 1925.
- iLyle, Miss. St. Pl. Bd. 4; 4, 13, 1925.
- McLaine, Ont. Ent. Soc. R. 58, 39-41, 1928.
- MacLeod, Penn. St. Col. C. 122, 20-21, 1929.
- Marcovitch, The Bean-Bag 7; 12, 24, 1925.
- Marcovitch, J. Ec. Ent. 18, 122-128, '25.
- Marcovitch, Tenn. B. 134, 12, 1926.
- iMarcovitch, Tenn. Ext. C. 8 rev. 1928, 2p.
- McLaine, Ont. Ent. Soc. R. 57, 22, 1927.
- Marlatt, U. S. D. A. Ent. R. f. 1928, 1920.
- Marlatt, U. S. D. A. Ent. R. f. 1929, 18.
- Monroe, N. M. Ext. R. 4, 27, 1922.
- iMiller, Ohio Mo. B. 9; 11 & 12, 197-204, 1925.
- iMorgan, Tenn. R. 37, 28-30, 1924.
- Morrison, N. Y. Gen. R. 47: 50-51, 1928.
- Motherwell, Can. Min. Agr. R. f. 1929, 123, 1929.
- Newton, Colo. Ent. C. 51, 22-25, 1926.
- Nissley, N. J. Agr. M. 11; 10, 3, 1929.
- Parks, Ohio Ext. B. 20:9, 1925, 12p.
- Parks, Ohio Ext. B. 22; 9, 8-12, 1925.
- iPeairs, W. Va. C. 39, 1925, 7p.
- iPettit, Mich. C. B. 107, 1927, 8p.
- Pettit, Grain Dealers J. 63, 260, 1929.
- iPettit, Mich. Sp. B. 183, 39-42, 1929.
- ibPotts, Ohio J. Sci. 27, 127-135, 1927.
- Saunders, Md. Ext. Serv. News 14; 1, 4, 1929.
- Schoene, Va. St. Crop Pest Com., Quar. B. 7: 4, 19-20, 1926.
- Schoene, Va. Ext. Div. News, 11; 11, 5, 1929.
- Sherman, N. C. R. 47, 77, 1925.
- iSherwood, W. Va. Ext. C. 279, 1926, 4p.
- iSherwood, W. Va. Ext. C. 279, (rev.) 1928, 8p.
- ilSmith, W. Va. Dept. Agr. Bien. R. 7, 58-65, 1926; R. 8, 43-48, 1929.
- Stirrett, Ont. Ent. Soc. R. 59, 107-109, 1929.
- biSweetman, Ecology 10, 228-244, 1929.
- Symons, Md. Ext. Serv. R. 10, 123, '25.
- lbTanner, Pan. Pac. Ent. 5, 183-186, 1929.
- Transeau, Ecology 8, 285-288, 1927.
- iWilliams, Ohio B. 382, 36-37, 1924.
- Epimechus flavirostris**  
nFall, Brklyn. Ent. Soc. B. 23, 239-240, 1928.
- Epinomia triangulifera**  
iRau, Psyche, 36, 243-248, 1929.
- Epinotia aceriella**  
Felt, N. Y. St. Mus. B. 267, 41, 1926.
- Epinotia corylana**  
niMcDunnough, Can. Ent. 57, 22, 1925.
- Epinotia kasloana**  
nMcDunnough, Can. Ent. 57, 23, 1925.
- Epinotia nanana**  
Felt, N. Y. St. Mus. B. 274, 168, 1928.
- Epinotia nigralbanoidea**  
niMcDunnough, Can. Ent. 61, 271, 1929.
- Epinotia perplexana**  
Bottimer, J. Agr. Res. 33, 817, 1926.
- Epinotia sagittana**  
niMcDunnough, Can. Ent. 57, 22, 1925.
- Epinotia subviridis**  
niHeinrich, PUSNM 74; 8, 15-16, 1929.
- Epipaschia zelleri**  
Criddle, Can. Ent. 59, 100, 1927.
- Epipaschiinae**  
iHolland & Schaus, Ann. Carnegie Mus. 16; 1, 49-126, 1925.  
Schaus, Ann. Carnegie Mus. 16, 9-48, 1925.
- Epiperola sp.**  
Barnes & Benjamin, Proc. Ent. Soc. Wash. 27, 129, 1925.
- Epiphloeus micaceus, pilosus**  
nChapin, PUSNM 71; Art. 2, 6-7, 1928.
- Epipsilia elevata**  
Barnes & Benjamin, Bklyn. Ent. Soc. B. 20, 190, 1925.
- Epipsilia heinrichi**  
nBarnes & Benjamin, Bklyn. Ent. Soc. B. 24, 165, 1929.
- Epischnia parkerella**  
Cooley, Mont. B. 170, 21, 1925.

**Epipsiliamorpha**—n. gen.

nBarnes & Benjamin, Bklyn. Ent. Soc. B.  
24, 173, 1929.

**Episimus argutatus**

Criddle, Can. Ent. 59, 100, 1927.

**Episimus** spp.—Key

Heinrich, U. S. N. M. B. 132, 79, 1926.

**Epistrophe nectarinus**

Curran, Can. Ent. 58, 112, 1926.

**Epistrophe nigropilosa**

nCurran, Amer. Mus. Nov. 247, 12-13, '27.

**Epistrophe viridaureus**

Curran, Can. Ent. 58, 112, 1926.

**Episyron biguttatus**

Rau, St. Louis Acad. Sci. Tr. 25, 187,  
1927.

**Epitetracnemus argentipes**

nGirault, Insc. Insc. Mens. 13, 99, 1925.

**Epitragodes tomentosus**

ibMiller, Fla. B. 203, 458-459, 1929.

iWatson, Fla. B. 183, 306-307, 1926.

**Epitrimerus pyri** (Pear leaf rust mite)

Urbahns, Cal. Agr. Mo. B. 14, 175, '26.

**Epitrix brevis**

Blake, Ill. Biol. Monog. 10; 4, 84, 1926.

Weese, Ill. Biol. Mon. 9; 4, 14, 1924.

**Epitrix cucumeris** (Potato flea beetle)\*

Baker, West. Wash. B. 10-W, n.s., 13-  
14, 1928.

Baker, W. Wash. B. 14-W, n.s. 10-12,  
1929.

iBrittain, N. S. Dept. Nat. Resource B.  
12, 70-71, 1927.

iBritton & Anderson, Conn. Tobacco  
Expt. Sta. B. 6, 83T-85T.

iCaesar, Ont. Dept. Agr. B. 325, 55-56,  
1927.

Clark, Wis. B. 396, 93-94, 1927.

Compton, Ill. C. 297, 15-16, 1925.

Compton, Ill. Hort. Soc. Tr. 60, 417-  
420, 1926.

Cowan, Wash. St. Hort. Assoc. Proc.  
22, 155-159, 1926.

Gillette, Col. R. 40, 31, 1927.

ibHoerner & Gillette, Colo. B. 337, 1928,  
165p.

Lieber, Ind. Dept. Conserv. R. 8, 48-49,  
1926.

Marcovitch & Stanley, Tenn. B. 140, 17-  
18, 1929.

Parks, Amer. Potato J. 6, 319-321, 1929.

Petch & Armstrong, Quebec Soc. Protec.

Plts. R. 17, 75, 1925.

Thatcher, N. Y. Geneva R. 44, 41, 1925.

Webster, Wash. B. 237, 27-29, 1929.

bWebster & Baker, J. Ec. Ent. 22, 897-  
900, 1929.

**Epitrix fuscata** (Eggplant flea beetle)\*

Compton, Ill. C. 297, 31, 1925.

Weese, Ill. Biol. Mon. 9; 4, 14, 1924.

**Epitrix parvula** (Tobacco flea beetle)\*

Brannon, West Tobacco J. 56, 29, 1929.

Brisley, Trans. Amer. Ent. Soc. 51, 178,  
1925.

ibJewett, Ky. B. 266, 51-69, 1926.

iMoore & Pepper, S. C. Ext. C. 84, 8-10,  
1926.

iMorgan & Gilmore, U. S. F. B. 1425,  
1924, 12p.

Schoene, Va. Ext. News 7; 5, 8, 1925.

**Epitrix subcrinita** (Western Potato flea beetle)

Baker, Wash. St. Hort. Soc. Proc. 23,  
209-211, 1928.

Baker, W. Wash. B. 14-W, 10-12, 1929.

Cooley, Mont. B. 170, 26, 1925.

Cowan, Wash. St. Hort. Soc. Proc. 22,  
155-159, 1926.

Mote, Oreg. C. 65, 33-34, 1926.

bWebster & Baker, J. Ec. Ent. 22, 897-  
900, 1929.

**Epiurus alborictus**

Cushman, Proc. Ent. Soc. Wash. 28, 33,  
1926.

**Epiurus indagator**

Baldur, Can. Ent. 58, 140-142, 1926.

**Epiurus pterophori**

Baldur, Ohio J. Sci. 29, 224-226, 1929.

ibWilder, Psyche 34, 227-229, 1927.

**Epizeuxis aemula**

Britton, Conn. B. 305, 762, 1929.

**Epochra canadensis** (Currant fruit fly)\*

Cooley, Mont. B. 170, 25, 1925.

Cooley, Proc. Mont. Hort. Soc. 28, 102-  
103, 1927.

Darrow, U. S. F. B. 1398; rev. Sept.  
1929, 16-17.

Downes, Proc. Ent. Soc. B. C. 25, 16,  
1928.

Jardine, Oreg. Bien. Rept. 1924-1926,  
101, 1926.

iMitchener, Ont. Ent. Soc. R. 57, 38-41,  
1927.

- Mitchener & Criddle, Ont. Ent. Soc. R.  
59, 25, 1929.
- iQuayle, Cal. C. 315, 15-16, 1929.
- Sears, Productive Small Fruit Cult. ed.  
2, 260-261, 1925.
- Erannis defoliaria**  
Essig, Insects of Western No. Amer.  
1926, 701.
- Erannis tiliaria (Lime-tree looper)\***  
Felt, N. Y. St. Mus. B. 267, 40, 1926.  
Felt, N. Y. St. Mus. B. 274, 94, 147-150,  
1928.
- biHarris, Conn. B. 265, 311-314, 1925.  
Perison, Me. For. Serv. B. 5, 32, 1927.  
Schott, J. N. Y. Ent. Soc. 33, 56, 1925.
- Erastriacis n. gen., schedocala**  
nDyar, Ins. Insc. Mens. 13, 4, 1925.
- Erax badiapex**  
nBromley, Amer. Mus. Nov. 334, 4, 1928.
- Erax barbatus**  
Painter, Ent. News 37, 154, 1926.
- Erax brunescens**  
niBromley, Ann. Ent. Soc. Amer. 22, 291,  
1929.
- Erax chapadensis**  
nBromley, Amer. Mus. Nov. 334, 3, 1928.
- Erax cubensis**  
niBromley, Ent. Soc. Amer. Ann. 22, 292,  
1929.
- Erax latiforceps, pachychaetus**  
nBromley, Amer. Mus. Nov. 334, 1, 3-4,  
1928.
- Erax pilosulus**  
niBromley, Ent. Soc. Amer. Ann. 22, 292,  
1929.
- Erax propinquus 5, pulchripes 5, sub-  
chalybeus 2-3, willistoni 2**  
nBromley, Amer. Mus. Nov. 334, 1928.
- Erebomyrma nevermanni**  
nMann, Psyche 33, 103-104, 1926.
- Erebus odora (Black witch)**  
Clark, Sci. Mo. 23, 395, 1926.  
Miller, Ent. News 38, 10, 1927.  
Smith, Ent. News 37, 324, 1926.
- Erechtia brevis 40, gilvitaris 39-40, mi-  
nutissima 40, pulchella 40-41.**  
nGodling, J. N. Y. Ent. Soc. 36, 1928.
- Eremochrysa punctinervis**  
Call, Kans. R. f. 1924-26, 80.  
bniSmith, Bklyn. Ent. Soc. B. 21, 48-52,  
1926.
- Eremocoris canadensis**  
nWalley, Can. Ent. 61, 41-42, 1929.
- Eremocoris depressus, ferus**  
nSchaus, Proc. Ent. Soc. Wash. 30, 59,  
60, 1928.
- Eremocoris melanotus**  
nWalley, Can. Ent. 61, 42-43, 1929.
- Eremocoris plebejus, species—Key**  
nSchaus, Proc. Ent. Soc. Wash. 30, 60,  
1928.
- Erephopsis fulvithorax 11, niger 11, schildi  
11-12, spp. 10; Hine, Mich. Univ. Mus.  
Zool. Occ. Papers 162, 1925.**
- Eretmopodites chrysogaster—Yellow fever**  
Bauer, Am. J. Trop. Med. 8, 273-279,  
1928.
- Ergates spiculatus (Ponderous pine borer)**  
Hardy & Preece, Pan-Pac. Ent. 3; 1, 34,  
1926.  
iKeen, Cal. Dept. Nat. Resources Div.  
For. B. 7, 68-69, 1928.
- Eridontomerus isosomatis**  
Riley, et al, J. Agr. Res. 34, 483-488,  
1927.  
iPhillips & Poos, J. Agr. Res. 34, 483-488,  
1927.
- Eriocampoides limacina (Pear slug)\***  
iBrittain, N. S. Dept. Nat. Resource B.  
12, 56-57, 1927.  
iBritton, & Zappe, Conn. B. 292, 129,  
1927.  
iCaesar et al, Farm. Advoc. 60, 444,  
1925.  
Fernald, Applied Ent. ed. 2, 344-345,  
1926.  
Long, Better Fruit 23; 11, 26, 1929.  
Ross, Ont. Fruit Grow. Assoc. R. 56,  
60-61, 1925.  
Zappe, Conn. B. 275, 322, 1926.
- Eriocera spp.**  
nAlexander, J. N. Y. Ent. Soc. 35, 271-  
273, 1927.  
nAlexander, J. N. Y. Ent. Soc. 36, 56-57,  
1928.
- Eriococcus azaleae (Azalea scale)**  
— Conn. B. 265, 337, 1925.
- Eriococcus borealis**  
iZappe, Conn. B. 275, 321, 1926.
- Eriococcus pilosus, smithi**  
niLobdell, Ann. Ent. Soc. Amer. 22, 763-  
764, 1929.



**Eriocrania auricyanea**

iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 72-78.

**Eriophyes aenigma**

Miller, Ohio B. 386, 159, 1925.

**Eriophyes brevitarsus**

Miller, Ohio B. 386, 159, 1925.

**Eriophyes celtis**

niKendall, Psyche, 36, 300-304, 1929.

**Eriophyes cladophthirus**

Watson, Fla. Dept. Agr. Quar. B. 39; 3, 143-144, 1929.

**Eriophyes essigi**

nibHassan, Cal. Univ. Pub. Ent. 4, 380, 1928.

**Eriophyes eucricotes**

nKendall, Psyche, 36, 306-308, 1929.

Miller, Ohio, B. 386, 159-160, 1925.

**Eriophyes filiformis, fraxinicola**

Miller, Ohio B. 386, 160, 1925.

**Eriophyes fraxiniflora (Ash flower gall)**

Perison, Me. For. Serv. B. 5, 31, 1927.

iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 53, 1926.

**Eriophyes fraxinivorus**

nibKendall, Psyche, 36, 308-311, 1929.

Miller, Ohio B. 386, 160, 1925.

**Eriophyes goniothorax**

Miller, Ohio B. 386, 160, 1925.

**Eriophyes gracilis**

iEssig, Cal. B. 399, 1925, 10p.

**Eriophyes laevis**

Miller, Ohio B. 386, 160-161, 1925.

**Eriophyes maritima**

niKendall, Psyche, 35, 210-212, 1928.

**Eriophyes minutus**

nibHassan, Cal. Univ. Pub. Ent. 4, 378, 1928.

**†Eriophyes oleivorus (Citrus rust mite)\***

Cook & Dozier, Porto Rico Ins. C. 88, 14, 1925.

DeBusk, R. Fla. Ext. R. f. 1925, 50-52.

DeBusk, Fla. Ext. R. f. 1927, 48.

DeBusk, Fla. Ext. R. f. 1928, 47.

iDelcurto et al, Texas Dept. Agr. B. 79, 91 94, 1925.

Grossenbacher, Citrus Ind. 6, 11, 1925.

iHinds, La. Ext. C. 122, 18-20, 1929.

Kime, Citrus Indust. 7: 6, 18, 1926.

Lenfest, Citrus Indust. 6:7, 15, 1925.

Lenfest, Citrus Indus. 6:8, 26, 1925.

Lenfest, Citrus Indust. 6:10, 7, 1925.

Lenfest, Citrus Indust. 6:11, 9, 1925.

Lenfest, Citrus Indus. 7:5, 25, 1926.

Lenfest, Citrus Indust. 7:6, 11, 1926.

Lenfest, Citrus Indust. 7:7, 8, 1926.

Lenfest, Citrus Indust. 7:7, 9, 1926.

Lenfest, Citrus Indust. 7:9, 26, 1926.

Thompson, Fla. Ent. 12, 40-41, 1928.

Watson, Citrus Indust. 4:7, 42, 1923.

Watson, Citrus Indust. 7:9, 34, 1926.

iWatson, Fla. B. 183, 374-381, 1926.

Watson, Citrus Indust. 9:7, 25, 1928.

Watson, Citrus Indust. 9:9, 7, 22, 1928.

Yothers, Citrus Indust. 6:4, 8, 38, 1925.

Yothers, Citrus Indust. 6:7, 16, 1925.

Yothers, Citrus Indust. 7:3, 14, 1926.

Yothers, Citrus Indust. 7:4, 14, 1926.

Yothers & Mason, Citrus Indust. 4:3, 14, 1923.

Yothers & Mason, Citrus Indust. 4:9, 22-23, 1923.

**Eriophyes padi (Plum blister mite)**

Miller, Ohio B. 386, 161, 1925.

**Eriophyes phloeocoptes (Pine gall mite)**

Miller, Ohio. B. 386, 161, 1925.

**Eriophyes pini**

Keen, Cal. Dept. Nat. Resources Div.

For. B. 7, 93, 1928.

Walther, J. Ec. Ent. 18, 830-836, 1925.

Walther, Pan-Pac. Ent. 1, 190, 1925.

Zappe, Conn. B. 275. 322-323, 1926.

**Eriophyes pyri (Pear leaf blister mite)\***

iBritton & Zappe, Conn. B. 292, 140-141, 1928.

iChilds, Better Fruit 20; 1, 9, 10, 18, '25.

iChilds, Oreg. C. 59, 1925, 8p.

Cooley, Mont. B. 170, 22, 1925.

Crosby, et al, N. Y. C. B. 498, 53, 1929.

Felt, N. Y. St. Hort. Soc. Proc. 72, 19, 1928.

Frank, Wash. Bi-Mo. B. 12; 5, 112, 1925.

Hawley, Utah B. 192, 43, 1925.

bHawley, Utah B. 197, 1926, 15p.

Jacobsen, Cal. Dept. Agr. Mo. B. 15, 131, 1926.

Miller, Ohio B. 386, 161, 1925.

Mote, Better Fruit, 23; 11, 16, 1929.

Parker, Blue Anchor 5; 12, 20, 21, 73, 1928.

Parrott, Proc. N. Y. Hort. Soc. 72, 8, 1927.

- Robertson, B. C. Dept. Agr. R. 19, K-25, 1925.  
 Urbahns, Cal. Cult. 67, 614, 1926.  
 Urbahns, Cal. Agr. Mo. Bul. 16, 77-80, 1927.  
 Webster, Wash. Farm. 54, 259, 1928.
- Eriophyes quadripes** (Bladder maple gall)  
 Miller, Ohio B. 386, 162, 1925.
- Eriophyes rhombifoliae**  
 Hib Hassan, Cal. Univ. Pub. Ent. 4, 378, 1928.
- Eriophyes ribis** (Currant bud mite)  
 Robertson, B. C. Dept. Agr. R. 22, Q26-27, 1928.
- Eriophyes rudis**  
 Kendall, Psyche 36, 304-306, 1929.
- Eriophyes salicinus**  
 Miller, Ohio B. 386, 162, 1925.
- Eriophyes spp.**  
 Hassan, Cal. Univ. Pubs. Ent. 4, 364-366, 1928.  
 Spittall, Proc. Acad. Ent. Soc. 10, 68, 1925.
- Eriophyes tetanorthrix, thujae**  
 Miller, Ohio B. 386, 162, 1925.
- Eriophyes tiliae** (Linden gall mite)  
 Miller, Ohio B. 386, 163, 1925.
- Eriophyes tristriatus** (Walnut blister mite)  
 Hib Hassan, Cal. Univ. Pub. Ent. 4; 11, 341-394, 1928.  
 Miller, Ohio B. 386, 163, 1925.
- Eriophyes ulmicola**  
 Miller, Ohio B. 386, 163, 1925.
- Eriophyidae**  
 iBritton & Zappe, Conn. B. 292, 159, '27.  
 Hib Hassan, Cal. Univ. Pub. Ent. 4, 341-394, 1928.
- Erioptera spp.**  
 niAlexander, Ann. Ent. Soc. Amer. 18, 353-355, 1925.  
 niAlexander, PUSNM 68; 4, 11-12, 1925.  
 nAlexander, Ann. Ent. Soc. Amer. 20, 309-314, 1927.  
 nAlexander, J. N. Y. Ent. Soc. 37, 49-54, 406-407, 1929.  
 nAlexander, Can. Ent. 58, 237-238, 1926.  
 nAlexander, Can. Ent. 61, 250-251, 1929.
- Eriopyga daviesi, eureka**  
 nBarnes & Benjamin, Can. Ent. 59, 5-6, 1927.
- Eriopyga lathen**  
 nDyar, Pan-Pac. Ent. 4, 7, 1927.
- Eriosoma americana** (Woolly elm aphid)  
 Cooley, Mont. B. 170, 24, 1925.  
 deGryse, Can. Dept. Agr. Ent. Br. Pam. 47, n.s. rev. ed. 22, 1925.
- Eriosoma**—Date of publication  
 Hottes, Proc. Biol. Soc. Wash. 40, 47-48, 1927.
- Eriosoma languinosa**  
 Essig, Cal. B. 411, 13-14, 1926.
- Eriosoma lanigerum** (Woolly apple aphid)\*  
 iBarnard, Cal. Cult. 64, 510, 1925.  
 iBrittain, N. S. Dept. Nat. Resource B. 12, 48, 1927.  
 biBritton, Conn. B. 265, 308-311, 1925.  
 iBritton & Zappe, Conn. B. 292, 135, '27.  
 Childs, Oreg. B. 243, 1929, 31p.  
 Crawford, N. C. Dept. Agr. B. Jan. 1926, 9p.  
 Cutright, Ohio B. 387, 199, 1925.  
 Dean, Kan. Ent. Com. Bien. R. 10, 31-32, 1927.  
 Essig, Cal. B. 411, 14-15, 1926.  
 Fackler, Tenn. R. 39, 32-33, 1927.  
 Fernald, Applied Ent. Ed. 2, 201-203, 1926.  
 Howard, Ann. Ent. Soc. Amer. 22, 341, 1929.  
 Jardine, Oreg. Bien R. f. 1926-28, 119, 1928.  
 iMorgan, Tenn. R. 37, 31, 1924.  
 iQuaintance & Baker, U. S. F. B. 1128; rev. Apr. 1926, 10-11.  
 Robertson, B. C. Dept. Agr. R. 20, P34-P35, 1926.  
 Ruhmann, B. C. Dept. Agr. R. 20, P34, 1926.  
 Ruhmann, B. C. Dept. Agr. R. 21, N40-N41, 1927.  
 Schoene, Va. Poly. R. f. 1919-27, 46-51.  
 Schoene, Va. St. Crop. Pest Com. Quar. B. 7; 4, 18-19, 1926.  
 iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 47, 1926.  
 iUnderhill, Va. Crop Pest Comm. Quar. B. 7; 1, 1925, 7p.  
 Venables, B. C. Ent. Soc. Proc. 26, 28-33, 1929.
- Eriosoma lanigerum & Perennial canker**  
 McLarty, B. C. Fr. Grow. Assoc. Ann. R. 39, 28-31, 1929.

- Eriosoma pyricola* (Woolly pear aphid)\*  
 Jacobsen, Cal. Dept. Agr. Mo. B. 15, 130-131, 1926.  
 Quaintance & Baker, U. S. F. B. 1128, rev. Apr. 1926, 13.
- Eriosoma rileyi*  
 Peirson, Me. For. Serv. B. 5, 57, 1927.
- Eriosoma ulmi* (Elm-currant aphid)  
 iGlendenning, Ent. Soc. B.C. Proc. 21, 33-40, 1924.
- Eristalis* genus—review 11-42, *aemulus* 288-289, *agrorum* 289-290, *albifrons* 35, *alhambra* 39, *anthophorinus* 20, Hull, Ohio J. Sci. 25, 1925.
- Eristalis arbustorum*  
 biDunavan, Ann. Ent. Soc. Amer. 22, 731-747, 1929.  
 iHull, Ohio J. Sci. 25, 309-310, 1925.
- Eristalis assimilis* 308, *atrimanus* 37, *bogotensis* 308-309, *circe* 25, Hull, Ohio J. Sci. 25, 1925.
- Eristalis compactus*  
 Curran, Can. Ent. 57, 50, 1925.  
 Hull, Ohio J. Sci. 25, 296, 1925.
- Erastilis conicus* 290-291, *cubensis* 38, *cyathus* 287, *dimidiatus* 295, *fasciatus* 34, *flavipes* 23, *floreus* 39, *furcatus* 29, *hortorum* 41, *inornatus* 302, *latifrons* 295, *mellissoides* 19, *minutalis* 42, *mirabilis* 305-306, *nemorum* 301-302, *obsoletus* 306, *occidentalis* 17, *ochraceus* 27, *oestraceus* 24, *ornatus* 26, *persa* 24, *phillipi* 26, *pilosus* 22, *precipuus* 286-287, *pusillus* 36, *pygolampus* 304, *quadraticornis* 29, *ruficeps* 307, *rufiventris* 33, *rupium* 299-300, *saxorum* 295-296, *scutellaris* 291, *spectabilis* 289, *taenia* 38, *temporalis* 297-299, Hull, Ohio J. Sci. 25, 1925.
- Eristalis tenax*  
 Bruce, Ent. Soc. B. C. Proc. 24, 27, '27.  
 ibDolley & Ferris, J. N. Y. Ent. Soc. 37, 127-134, 1929.  
 Hull, Ohio J. Sci. 25, 305, 1925.
- Eristalis texanus* 28, *transversus* 41, *triangularis* 35, *vinetorum* 40, *volaticus* 287-288; Hull, Ohio J. Sci. 25, 1925.
- \*Ermine moth, *see* *Hyponomeuta malinellus*
- Ernestia* sp.  
 Snow, J. Ec. Ent. 18, 608, 1925.
- Erratic army-worm, *see* *Agrotis fennica*
- Erupa nampa*  
 niSchaus, Wash. Ent. Soc. Proc. 31, 56, '29.
- Erycia aldrichi*  
 nCurran, Can. Ent. 59, 17-18, 1927.
- Erycia consistena*, *deckeri*  
 nCurran, Amer. Mus. Nov. 260, 10-13, 1927.
- Erycia delecta*, *varifrons*  
 nCurran, Can. Ent. 59, 16-19, 1927.
- Erymanthus bicolor*  
 nChapin, Amer. Mus. Nov. 151, 2-3, 1924.
- Erynetes limaceum* on *Limax maximus*  
 Bequaert, J. Parasitol. 11, 201, 1925.
- Erynniopsis* n gen.  
 Townsend, Ins. Insc. Mens. 14, 30-31, '26.
- Erynnis meridianus*  
 nBell, J. N. Y. Ent. Soc. 35, 261-263, '27.
- Erynnis* spp.—Phylogeny  
 Lindsey, Denison Univ. B. 27; 3, 109-115, 1927.
- Erythraeus parvisetosus*, *phalangiulus*, *pilosus*; Miller, Ohio B. 386, 111, 1925.
- Erythrastides pygmaeus* (Grape sawfly)\*  
 iHorsfall, Ent. News 40, 174-177, 1929.
- Erythrodiplax berenice*  
 Shortness, Amer. Ent. Soc. Trans. 55, 415-423, 1929.
- Erythroneura* gen.  
 iRobinson, Kans. Univ. Sci. B. 16, 101-153, 1926.
- Erythroneura abolla*  
 McAtee, Ill. Nat. Hist. Surv. B. 16, 131, 1926.
- Erythroneura ancora*, *anfracta*  
 niBeamer, Ent. Soc. Amer. Ann. 22, 122-123, 1929.
- Erythroneura basilaris*  
 Lawson, Ann. Ent. Soc. Amer. 19, 73, 1926.
- Erythroneura bipentagona*  
 nBeamer, Can. Ent. 59, 31, 1927.
- Erythroneura canyonensis*, *carmini*  
 niBeamer, Ent. Soc. Amer. Ann. 22, 120, 121, 1929.
- Erythroneura carneola*  
 niOsborn, Ann. Carnegie Mus. 18, 288, 1928.
- Erythroneura casta*, *cimarroni*  
 niBeamer, Ann. Ent. Soc. Amer. 22, 118, 119, 1929.

- Erythroneura comes** (Grape leafhopper)\*  
 ibBliss, Jr. Agr. Res. 34, 847-852, 1927.  
 Bonnet, Cal. Grape Grow. 9; 2, 6, 1928.  
 iCaesar, Ont. B. 328, 41-43, 1927.  
 Cooper, Ky. R. 37, 28, 1925.  
 Dozier, Del. B. 147, 20, 1926.  
 Dozier, Del. B. 152, 23, 1927.  
 Dozier, Del. B. 158, 21, 1928.  
 iDozier, Del. Ext. C. 26, 1929, 7p.  
 Dutton, Mich. Hort. Soc. R. 53, 154-159, 1923.  
 Eyer & McCubbin, Pa. Dept. Agr. Gen. B. 433, 4-6, 1926.  
 Eyer, J. Ec. Ent. 20, 253-260, 1927.  
 iFairbanks, Agr. Eng. 7, 240, 1926.  
 Felt, N. Y. St. Hort. Soc. Proc. 70, 50, 1925.  
 Gentner, Mich. Hort. Soc. R. 54, 192-193, 1925.  
 Gladwin, Rur. N. Y. 87, 643, 1928.  
 Jungerman, Cal. Cult. 64, 591, 1925.  
 Klein, Cal. Cult. 67, 446, 1926.  
 McAtee, Ill. Nat. Hist. Surv. B. 16, 136, 1926.  
 Matthews, Ky. Ext. C. 209, 21, 1927.  
 Runner, Ohio St. Hort. Soc. Proc. 58, 62-68, 1925; 59, 33-34, 1926; 59, 81-82, 1926.  
 Sears, Productive small Frt. Cult. ed. 2, 338-339, 1925.  
 Sears, Mass. Ext. L. 64 rev. 14, 1928.
- Erythroneura elegantula**  
 niOsborn, Ann. Carnegie Mus. 18, 289-290, 1928.
- Erythroneura gilensis, grandis**  
 niBeamer, Ann. Ent. Soc. Amer. 22, 123-124, 127, 1929.
- Erythroneura hartii**  
 ibStearns, Va. Tech. B. 33, 1928, 15p.
- Erythroneura illinoensis, kiperi**  
 iBeamer, Ent. Soc. Amer. Ann. 22, 124, 125, 1929.
- Erythroneura maculata**  
 Ball, J. Ec. Ent. 19, 95-99, 1926.
- Erythroneura milleri**  
 inBeamer, Ann. Ent. Soc. Amer. 22, 125, 1929.
- Erythroneura mitella**  
 nMcAtee, Ill. Nat. Hist. Surv. B. 16, 132, 1926.
- Erythroneura nicholi**  
 nBeamer, Can. Ent. 59, 30, 1927.
- Erythroneura obliqua**  
 Weese, Ill. Biol. Mon. 9; 4, 16, 1924.
- Erythroneura obscura**  
 niBeamer, Ann. Ent. Soc. Amer. 22, 117, 1929.
- Erythroneura pallenta, pinalensis**  
 niBeamer, Ann. Ent. Soc. Amer. 22, 117, 119-120, 1929.
- Erythroneura repitita**  
 nMcAtee, Ill. Nat. Hist. Surv. B. 16, 131, 1926.
- Erythroneura rubicunda**  
 inBeamer, Ann. Ent. Soc. Amer. 22, 126, 1929.
- Erythroneura rubranotata**  
 nBeamer, Can. Ent. 59, 30, 1927.
- Erythroneura scutellaris var. insolita**  
 nMcAtee, Ill. Nat. Hist. Surv. B. 16, 133, 1926.
- Erythroneura septima**  
 nBeamer, Can. Ent. 59, 30-31, 1927.
- Erythroneura similis**  
 niOsborn, Ann. Carnegie Mus. 18, 289, '28.
- Erythroneura sp**  
 niBeamer, Ann. Ent. Soc. Amer. 22, 115-129, 1929.
- Erythroneura sublnata**  
 niOsborn, Ann. Carnegie Mus. 18, 289, '28.
- Erythroneura texana**  
 niBeamer, Ann. Ent. Soc. Amer. 22, 121-122, 1929.
- Erythroneura triceroprocta**  
 niBeamer, Ann. Ent. Soc. Amer. 22, 118, 1929.
- Erythroneura tricineta** (Three-banded leafhopper)\*  
 iCaesar, Ont. B. 328, 41-43, 1927.  
 iDozier, Del. Ext. C. 26, 1929, 7p.  
 McAtee, Ill. Nat. Hist. Surv. B. 16, 185, 1926.
- Erythroneura tricolor, tripunctata**  
 inBeamer, Ann. Ent. Soc. Amer. 22, 119, 124-125, 1929.
- Erythroneura tropicalis**  
 niOsborn, Ann. Carnegie Mus. 18, 288, 1928.
- Erythroneura unicolor, variabilis**  
 niBeamer, Ann. Ent. Soc. Amer. 22, 120, 126-127, 1929.
- Erythroneura vitis**  
 Beamer, Can. Ent. 59, 31, 1927.

- Erythroneura vulnerata*  
iCaesar, Ont. B. 328, 41-43, 1927.  
Cooper, Ky. R. 37, 28, 1925.
- Erythroneura ziczac*  
ibFairbairn, Kans. Ent. Soc. J. 1, 79-84, 1928.
- Erythrothrips bishoppi, fasciculatus, keeni*  
nMoulton, Bklyn. Ent. Soc. B. 24, 224-226, 1929.
- Esia* n. gen.  
iHeinrich, USNMB 132, 109-110, 1926.
- Esperanza texana*—La.  
Johnston, Bklyn. Ent. Soc. B. 22, 221, 1927.
- Essigella californica*  
Essig, Insects of Western No. Amer. 1926, 229.  
iKeen, Cal. Dept. Nat. Resources Div. For. B. 7, 89, 1928.
- Essostrutha ramsdeni*  
nFisher, PUSNM 68, Art. 22, 39-40, 1926.
- Estadia tripunctata*  
nCarpenter, Harvard Mus. Comp. Zool. B. 67, 443-4, 1926.
- Esthiopterum ardeae*  
Spencer, Can. Ent. 60, 259, 1928.
- Esthiopterum columbae*  
Spencer, Can. Ent. 60, 259, 1928.  
iSwenk & Mussehl, Neb. C. 37, 8, 1928.
- Esthiopterum crassicornae*  
iSwenk & Mussehl, Neb. C. 37, 8, 1928.
- Estigmene acraea* (Salt-marsh caterpillar)\*  
iBrittain, N. S. Dept. Nat. Resource B. 12, 74, 1927.  
iEssig, Insects of Western No. Amer. 1926, 676-677.
- Estigmene prima*  
Learned, Can. Ent. 58, 1-2, 1926.
- Estola attenuata*  
nFisher, PUSNM 68: 22, 12-14, 1926.
- Ethelgoda*, n. gen.  
iHeinrich, USNMB 132, 23-24, 1926.
- Ethmia zelleriella*  
Braun, Trans. Amer. Ent. Soc. 51, 14-15, 1925.
- Ethylene dichloride*, *see* Insecticides—  
Ethylene dichloride
- Etiella zinckenella* (Lima bean pod borer)  
Essig, Insects of Western No. Amer. 1926, 709.  
Larson, J. Ec. Ent. 19, 699-702, 1926.
- Euaesthetus pacificus*  
nFall, Pan-Pac. Ent. 3, 62-63, 1926.
- Euamiana*—n. gen.  
nBarnes & Benjamin, Ins. Insc. Mens. 14 182-183, 1927.
- Euantha interrupta*  
nAldrich, P. U. S. N. M. 72; 7, 28, 1928.
- Euaphycus helvolus luteolus*  
Smith & Compere, Cal. Univ. Pub. Ent. 4, 274-275, 1928.
- Euaphycus portericensis*  
niDozier, Proc. Ent. Soc. Wash. 28, 100-101, 1926.
- Eubaphe ferruginosa*—Synonymy  
Barnes & Benjamin, Pan-Pac. Ent. 3: 1, 16, 1926.
- Eubaphion contusum*  
Bailey, Animal Life of Carlsbad Cavern. 1928, 181.
- Euborellia annulipes*  
iBuckell, Proc. B. C. Ent. Soc. 26, 16-17, 1929.  
Downes, Proc. Ent. Soc. B. C. 25; 17, 1928.  
Pallister, Bklyn. Ent. Soc. B. 22, 254-255, 1927.  
Rehn, Tr. Amer. Ent. Soc. 51, 19-20, 1925.
- Euborellia stali*  
Rehn, Tr. Amer. Ent. Soc. 51, 20, 1925.
- Eucacidalia quakerata*  
nCassino, Lepidopterist 4, 59-60, 1927.
- Eucaerus varicornis*  
Blatchley, Can. Ent. 57, 161, 1925.
- Eucalymnatus tessellatus*  
Severin, So. Dak. Ent. R. 15, 32, 1924.  
Trimble, Pa. Dept. Agr. B. 8; 2, 6, 1925.  
Trimble, Pa. Dept. Agr. Gen. B. 480, 6, 1929.
- Eucamptonyx secundus*  
niFenton, P. U. S. N. M. 72; 8, 5-6, 1928.
- Eucraphis flava*  
iKnowlton, Fla. Ent. 13, 4, 1929.
- Eucraphis sitchensis, variabilis*  
nGlendenning, Can. Ent. 58, 97-98, 1926.
- Euceron pittieri*  
nSchaus, Proc. Ent. Soc. Wash. 30, 57, 1928.
- Euceroptres* gen., *maritimus*—Key  
Weld, P. U. S. N. M. 68, Art. 10, 112-113, 1926.

- Euchaetias helena*, polingi  
nCassino, Lepidopterist 4, 92-93, 1928.
- Euchloe creusa hyantis*  
Coolidge, Ent. News 36, 65, 1925.
- Euchloe genutia* (Easter butterfly)  
— Md. Acad. Sci. Quar. B. 6: 1, 8, 1927.
- Eucilinus* n. gen., mononychus  
nBuchanan, Proc. Ent. Soc. Wash. 28, 179-187, 1926.
- Euclea cassida*  
nDyar, J. Wash. Acad. Sci. 17, 548, 1927.
- Euclea* spp.—Key  
Dyar, Ins. Insc. Mens. 14, 77-79, 1926.
- Euclesia retracta*  
nAldrich, Tr. Amer. Ent. Soc. 52, 24-25, 1926.
- Eucoila* sp.  
Taylor, Ent. Amer. 10; 69, 1929.
- Eucomus* gen., strictus  
nAldrich, PUSNM 69, 22, 22-23, 1926.
- Euconnus longiceps*  
nFall, Pan-Pac. Ent. 2, 144, 1926.
- Eucordyligaster* genus  
Ewing, J. Wash. Acad. Sci. 17, 86, 1927.
- Eucosma dapsilis*  
niHeinrich, PUSNM 74; 8, 5-6, 1929.
- Eucosma derelicta*, eburata  
niHeinrich, P. U. S. N. M. 74; 8, 6-7, 13-14, 1929.
- Eucosma giganteana*  
Bottimer, J. Agr. Res. 33, 815, 1926.
- Eucosma heinrichi*  
niMcDunnough, Can. Ent. 57, 19, 1925.
- Eucosma laticurva*, mirosignata, nuntia  
niHeinrich, P. U. S. N. M. 74; 8, 4-5, 11-12, 10-11, 1929.
- Eucosma ophionana*  
nMcDunnough, Can. Ent. 57, 18, 1925.
- Eucosma perpropinqua*, persolita, russeola  
niHein, P. U. S. N. M. 74; 8, 6-9, 1929.
- Eucosma simplex*  
niMcDunnough, Can. Ent. 57, 21, 1925.
- Eucosma tahoensis*  
nHeinrich, PUSNM 74; 8, 9-10, 1929.
- Eucosma vagana*, watertonana  
niMcDunnough, Can. Ent. 57, 19, 115, 1925.
- Eucosminae*  
Heinrich, PUSNM 74; 8, 1929, 23 p.
- Euctenodes* spp.—Key  
Kessel, J. N. Y. Ent. Soc. 33, 30, 1925.
- Eucymatoge obliquiplaga*  
nDyar, Pan-Pac. Ent. 4, 9, 1927.
- Eucymatoge perfica*, segnis  
niSchaus, Wash. Ent. Soc. Proc. 31, 52-53, 1929.
- Eudamus acawoios*, camagura  
niWilliams, Tr. Amer. Ent. Soc. 52, 73, 81, 1926.
- Eudamus casica*  
bBell, J. N. Y. Ent. Soc. 33, 227-232, 1925.
- Eudamus huancavillcas* 72, minvanes 85  
motilones 68. niWilliams, Tr. Amer. Ent. Soc. 52, 1926.
- Eudamus proteus*  
iWatson, Fla. Dept. Agr. Quar. B. 39: 3; 59-60, 1929.
- Eudemis vacciniana* (Black-head fire worm)\*  
iCrowley, Wash. B. 230, 20-24, 1929.
- Eudmoe carrieta*  
nSchaus, PUSNM 73; 19, 10-11, 1928.
- Eudule allegra*, nanora, sorcula  
niSchaus, Wash. Ent. Soc. Proc. 31, 51-52, 1929.
- Eutheola rugiceps* (Sugarcane beetle)\*  
Baerg, Ark. B. 231; 48-49, 1928.  
Ingram, U. S. F. B. 1543, 12, 1927.  
Rosenfeld, Sugar B. 6: 24, 16, 1928.  
Smith, La. Ext. C. 113: 28-29, 1928.  
i— Miss. St. Pl. Bd. Quar. B. 6, 1, 17-19, 1926.
- Eugamandus cyamae*, schwarzi  
nFisher, PUSNM 68; 22, 33-36, 1926.
- Eugenacephala ruficeps*  
nCurran, Can. Ent. 57, 25, 1925.
- Eugereon* and ancestry of Hemiptera  
iCrampton, Bklyn. Ent. Soc. B. 22, 1-55, 1927.
- Euglyphis panselene*  
nDyar, Pan-Pac. Ent. 5, 86, 1928.
- Euglyphis primola*  
nSchaus, Proc. Ent. Soc. Wash. 29, 104, 1927.
- Eugnathodus flavidus*  
nOsborn, Ann. Ent. Soc. Amer. 19, 251, 1926.
- Eugnathodus guajanae*  
Osborn, J. Ec. Ent. 19, 104, 1926.  
Osborn, Ref. Bk. Sugar Indus. of World 4, 48, 1926.  
Osborn, Porto Rico Dept. Agr. J. 13, 102, 1929.

- Eugnathodus minutus*  
nOsborn, Porto Rico Dept. Agr. J. 13, 101, 1929.
- Eugnathodus pallidus*  
nOsborn, Ann. Ent. Soc. Amer. 19, 352, 1926.
- Eugnathodus rosaceus*  
nOsborn, Porto Rico Dept. Agr. J. 13, 102, 1929.
- Eugnathodus virescens*  
nOsborn, Ann. Ent. Soc. Amer. 19, 351-352, 1926.
- Eulabis crassicornis, montanus*  
Blaisdell, Ent. News 36, 83, 1925.
- Eulasiona catskillensis, neglecta*  
West, J. N. Y. Ent. Soc. 33, 125-126, '25.
- Eulasiona tibialis*  
nCurran, Brklyn. Ent. Soc. B. 22, 150, '27.
- Eulecanium, see Lecanium*
- Eulechriops* gen.  
iBoving, Proc. Ent. Soc. Wash. 28, 60-62, 1926.
- Eulechriops gossypii*  
niBarber, Proc. Ent. Soc. Wash. 28, 53-54, 1926.  
iBoving, Proc. Ent. Soc. Wash. 28, 54-55, 1926.  
Townsend, Proc. Ent. Soc. Wash. 28, 55-59, 1926.
- Eulia mariana* (Gray banded leaf roller)  
Gilliat, Ont. Ent. Soc. R. 58, 36-38, 1928.  
Gilliat, Ont. Ent. Soc. R. 59, 11, 1929.  
ibGilliat, Tr. Roy. Soc. Canad. sec. V. Biol. Sci. 23: 1, 69-84, 1929.  
Kelsall, Nova Scotia Fr. Grow. Assoc. 65, 74-75, 1929.
- Eulia pinatubana* (Pine tube moth)  
Peirson, Me. For. Serv. B. 5, 96-97, 1927.
- Eulia quadrifasciana* (Four-banded leaf roller)  
ibFrost, Can. Ent. 59, 149-152, 1927.  
Gilliat, Ont. Ent. Soc. R. 58, 38, 1928.
- Eulia* sp.  
ibFrost, Pa. St. Col. B. 225, 1-24, 1928.
- Eulia velutinana* (Red banded leaf roller)  
Bourne, Mass. Fr. Grow. Assoc. R. 35, 126-127, 1929.  
Frost, Penn. St. B. 196, 32, 1925.  
biFrost, Penn. St. B. 197, 1925, 27p.
- Hough, Va. St. Hort. Soc. Proc. 30, 129-134, 1925.
- Hough, Va. St. Crop Pest Com. Quar. B. 7:4, 14-15, 1926.
- biHough, Va. B. 259, 1927. 29p.
- Schoene, Va. Poly. R. f. 1919-1927, 46.
- iWalden, Conn. B. 275, 298-301, 1926.
- Eulimnadia stoningtonensis*  
niBerry, Amer. J. Sci. 11; 65, 431-433, 1926.
- Eulimneria crassifemur*  
Baird, Ont. Ent. Soc. R. 59, 39, 1929.  
iJones, U. S. D. A. Tech. B. 98, 3, 1929.
- Eulimulodes* n. gen., *mexicanus*  
nMann, J. Wash. Acad. Sci. 16, 453-454, 1926.
- Euliphyra mirifica*  
Clark, Smith. Inst. R. f. 1925, 472, 1926.
- Eulonchus marialiciae*  
nBrimley, Ent. News 36, 77, 1925.
- Eulophus viridulus*  
Dudich, Internat. Corn Borer Invest. R. 2, 188, 1928.  
iEllinger & Sachtleben, Internat. Corn Borer, Invest. Sci. R. 1, 127-129, 1928.  
Hergula, Internat. Corn Borer Invest. Sci. R. 2, 120, 1929.
- Eulpye hastata*  
Spittall, Proc. Acad. Ent. Soc. 10, 65, 1925.
- Eumacronychia* gen. 84-86, *elita* 91-92, *elongata* 93-94, *montana* 88, *nigricornis* 90-91, *rohweri* 92-93, *sternalis* 89; nAllen, PUSNM 68; 9, 1926.
- Eumarozia*  
niHeinrich, U. S. N. M. B. 132, 110-111, 1926.
- Eumayria herberti*  
nWeld, PUSNM 68; 10, 108-109, 1926.
- Eumenes dyscherus*  
Bequaert, Brklyn. Ent. Soc. B. 20, 135-138, 1925.
- Eumerus narcissi*  
niSmith, Pan-Pac. Ent. 4, 139, 1928.
- Eumerus* sp.  
Locklin & Newton, W. Wash. B. 13-W, 7, 1929.
- Eumerus* spp.  
Curran, Can. Ent. 58, 114-115, 1926.  
iSmith, Pan-Pac. Ent. 4, 137-139, 1928.
- Eumerus strigatus* (Lunate onion fly, Lesser bulb fly)\*  
Broadbent, J. Ec. Ent. 18, 141, 1925.

- Broadbent, J. Ec. Ent. 20, 112, 1927.  
 Cole, Pan-Pac. Ent. 4, 29, 1927.  
 Cole, J. Ec. Ent. 22, 236-237, 1929.  
 Doucette, Florists' Exch. 62, 377, 1926.  
 Downes, Proc. Ent. Soc. B. C. 25; 16-17, 1928.  
 Essig, Insects of Western No. Amer. 1926, 573-574.  
 Felt, J. Ec. Ent. 18, 751, 1925.  
 Felt, N. Y. St. Mus. B. 267, 42, 1926.  
 Felt, N. Y. St. Mus. B. 274, 174, 1928.  
 iFrank & Broadbent, Florists Exch. 62, 661, 1926.  
 Jardine, USDA FHB SRA 87, 40, 1926.  
 Jardine, USDA FHB SRA 88, 70-76, '26.  
 iMcDaniel, Mich. Quart. B. 10, 48-52, 1927.  
 iMcDaniel, Mich. Spec. B. 173, 3-10, 1928.  
 Marlatt, USDA FHB SRA 87, 36-39, '26.  
 Park, Oreg. St. Bd. Hort. Bien. R. 19, 53-55, 1927.  
 ilbPoos & Weigel, Va. Truck B. 60, 579-587, 1927.  
 iWilcox, J. Ec. Ent. 19, 762-772, 1926.  
 lWilcox, Oreg. St. Hort. Soc. R. 18, 133-137, 1926.  
 iWilcox, Oreg. St. Bd. Hort. Bien. R. 19, 149-158, 1927.  
 Wilcox & Motes, Florists Exch. 63, 725, 1926.
- Eumerus strigatus**—Quarantine 62  
 Jardine, USDA FHB SRA 91, 73-75, '27.
- Eumerus superbus**  
 nShannon, Proc. Ent. Soc. Wash. 29, 84-85, 1927.
- Eumichthus oedipus**  
 nHardy & Preece, Pan-Pac. Ent. 3, 188-189, 1927; 4, 62, 1927.
- Eumichtis gunderi**  
 nBarnes & Benjamin, Can. Ent. 59, 7, 1927.
- Eumolpinae**—larvae  
 Bobing, J. Wash. Acad. Sci. 17, 182, 1927.
- Eumycteris saccharidis**  
 niBarber, Proc. Ent. Soc. Wash. 29, 149-150, 1927.  
 iBoving, Proc. Ent. Soc. Wash. 29, 151-159, 1927.
- Eumyiolepta braziliana**  
 nShannon, P. U. S. N. M. 70; 9, 14, 1927.
- Eumysia spp.**  
 Dyar, Ins. Insc. Mens. 13, 221, 1925.
- Eunotela chacoa**  
 nSchaus, P. U. S. N. M. 73; 19, 54, 1928.
- Eunotiscus**  
 nCompere, Cal. Univ. Pub. Ent. 4; 8, 221-222, 1928.
- Eunotiscus gahani**  
 niCompere, Cal. Univ. Pub. Ent. 4, 222-223, 1928.
- \*Euonymus scale, see Chionaspis euonymi**
- Eupagoderes giganteus**  
 nChittenden, Brklyn. Ent. Soc. B. 21, 169-170, 1926.
- Euparagia scutellaris**  
 Williams, Pan-Pac. Ent. 4, 38-39, 1927.
- Euparixia n. gen., duncani**  
 nBrown, Can. Ent. 59, 288-289, 1927.
- Euparthenos nubilis**  
 nBarnes & Benjamin, Pan-Pac. Ent. 3, 2; 74, 1926.
- Euparyphus lagunae**  
 Cole, J. Ent. & Zool. 17, 55-56, 1925.
- Eupathitrips bagnalli**  
 nMorgan, Proc. Ent. Soc. Wash. 31, 3-5, 1929.
- Eupelminus saltator**  
 biMuesebeck & Dohanian, U. S. D. A. B. 1487, 23-24, 1927.
- ilPhillips & Poos, J. Agr. Res. 34, 473-482, 1927.
- Eupelmus beenleighi**  
 nGirault, Ins. Insc. Mens. 14, 64, 1926.
- Eupelmus coleopterophagus**  
 Cockerell, J. Ec. Ent. 22, 985-986, 1929.
- Eupelmus incredibilis**  
 nGirault, Ins. Insc. Mens. 14, 133, 1926.
- Eupelmus inyoensis**  
 iSmith & Compere, Cal. Univ. Pub. Ent. 4, 295-297, 1928.
- Eupelmus macrocarpae**  
 Balduf, Can. Ent. 58, 160, 1926.
- Eupelmus pini**  
 niTaylor, Brklyn. Ent. Soc. B. 22, 205-207, 1927.  
 Taylor, Ent. Amer. n.s. 9, 208, 1929.
- ibTaylor, Ent. Amer. 10; 66, 1929.
- Eupelmus poa**  
 lbWoodruff, J. Ec. Ent. 22, 160-167, 1929.
- Eupelmus spongipartus**  
 biMuesebeck & Dohanian, U. S. D. A. B. 1487, 21-23, 1927.



- Eupeodes volucris*  
ibFluke, Wis. Res. B. 93, 30-31, 1929.
- Euphalepus panamerensis*  
nFletcher, Ent. News, 38, 152-153, 1927.
- Euphalerus gallicola*  
niFerris, Can. Ent. 60, 115-116, 1928.
- Euphobetron* spp.--Key  
Dyar, Ins. Insc. Mens. 14, 93, 1926.
- Euphoria fulgida*  
iHayes, Kans. Tech. B. 16, 116-121, 1925.
- Euphoria inda* (Bumble flower beetle)  
Spencer, Ont. Ent. Soc. R. 59, 106, 1929.
- Euphoria sepulchralis*  
iHayes, Kans. Tech. B. 16, 121-126, 1925.
- Euphthiracarus (Indotritia) bryani*  
Jacot, Psyche 35, 213, 1928.
- Euphthiracarus depressus*  
iJacot, Tr. Amer. Micro. Soc. 43, 90-94, 1924.
- Euphthiracarus (Indotritia) hawaiiensis*  
Jacot, Psyche 35, 214, 1928.
- Euphydryas anicia*  
Gunder, Ent. News 36, 196-197, 1925.
- Euphydryas aurilacus*  
inGunder, Pan-Pac. Ent. 5, 49-50, 1928.
- Euphydryas chalcedona*  
Gunder, Ent. News 36, 195-196, 1925.  
iGunder, Pan-Pac. Ent. 5, 1-4, 1929.
- Euphydryas hermosa*  
Gunder, Pan-Pac. Ent. 5, 170, 1929.
- Euphydryas hutchinsi*  
nMcDunnough, Can. Ent. 60, 248-249, 1928.
- Euphydryas irelandi*  
nGunder, Can. Ent. 61, 44, 1929.
- Euphydryas monoensis*  
niGunder, Pan-Pac. Ent. 5, 49, 1928.
- Euphydryas morandi*  
niGunder, Ent. News 39, 304-306, 1928.
- Euphydryas phaeton*  
iClark, PUSNM 71; 11, 1927, 22p.
- Euphydryas quino*  
Cottle, Pan-Pac. Ent. 3, 75-76, 1926.
- Euphydryas sierra*  
Gunder, Ent. News 36, 197, 1925.
- Euphydryas* sp.  
Gunder, Ent. News 38, 131, 1927.  
iGunder, Pan-Pac. Ent. 6: 1-8, 1929.
- Euphydryas wallacensis*  
niGunder, Pan-Pac. Ent. 5, 50, 1928.
- Euphyia swetti*  
nCassino, Lepidopterist 4, 57-58, 1927.
- Euphyllodromia atropos* 137-138, *jugata* 143-145, *nigrochlamys* 146-150, *tupi* 139-143.  
niRehn, Tr. Amer. Ent. Soc. 54, 1928.
- Euphyllura arctostaphyli*  
Ferris, Can. Ent. 60, 116-117, 1928.
- Eupithecia alpinata*  
nCassino, Lepidopterist 4, 65-66, 1927.
- Eupithecia ammonata*  
nMcDunnough, Can. Ent. 61, 63, 1929.
- Eupithecia apacheata*  
nCassino, Lepidopterist 4, 60-62, 1927.
- Eupithecia balboata, bonita*  
nCassino & Swett, Lepidopt. 4, 33-35, '25.
- Eupithecia georgii*  
niMcDunnough, Can. Ent. 61, 67, 1929.
- Eupithecia gilata, joymaketa*  
niCassino, Lepidopt. 4, 50-52, 54-55, '25.
- Eupithecia luteata* (?)  
Peirson, Me. For. Serv. B. 5, 65, 1927.
- Eupithecia mackieata*  
Cassino & Swett, Lepidopt. 4, 45-47, '25.
- Eupithecia miamata* 47-50, *mystiata* 55-56.  
*orfordata* 64-65, *ritaria* 62-63, *ruthiata* 63-64, *sierrae* 52-53.  
Cassino, Lepidopterist 4, 1925.
- Eupithecia* spp.  
McDunnough, Can. Ent. 61, 59-69, '29.
- Eupithecia spenceata* 73-74, *tricolorata* 85-87, *vitreolata* 84-85. iCassino, Lepidopterist 4, 1927.
- Euplectrus bicolor*  
Beckwith, J. N. Y. Ent. Soc. 37, 415, 1929.
- Euplectrus junctus*  
nGahan, PUSNM 71; 4, 30-31, 1928.
- Euplectrus platyhypenae*  
Call, Kans. R. f. 1926-28, 76-77.  
ibSmith, Brklyn. Ent. Soc. B. 22, 128-135, 1927.  
Swezey, J. Ec. Ent. 19, 718, 1926.
- Euplectrus* sp.  
Flanders, Pan-Pac. Ent. 2, 158, 1926.
- Euploea blossomae*  
nSchaus, Proc. Ent. Soc. Wash. 31, 20, 1929.
- Eupogonius annulicornis, griseus*  
nFisher, PUSNM 68: 22, 9-11, 1926.
- Eupogonius knabi, marmoratus*  
nFisher, Proc. Ent. Soc. Wash. 27, 15, 16, 1925.

- Eupogonius nigritarsis**  
nFisher, PUSNM 68; 22, 10-11, 1926.
- Eupogonius pubescens, subarmatus, vestitus**; Champlain, Kirk & Knull, Ent. News 36, 141, 1925.
- Euponera (Trachymesopus) gilva**  
Smith, Ann. Ent. Soc. Amer. 22: 543-545, 1929.
- Euproctis chrysorrhoea (Brown-tail moth)\***  
Bailey, Vt. Agr. Bien. R. 13, 49, 1926.  
Bailey, Vt. Agr. Bien. R. 14, 88, 1928.  
iBrittain, Nova Scotia Dept. Nat. Res. B. 12, 20-21, 1927.  
Burgess, J. Ec. Ent. 22, 474-478, 1929.  
Burgess & Crossman, U. S. D. A. Tech. B. 86, 142-143, 1929.  
Dunlap, USDA PQCA SRA 97, 111-117, 1928.  
Fernald, Applied Ent. ed. 2, 268-270, 1926.  
Gilliat, Ont. Ent. Soc. R. 56, 63-69, 1926.  
Gossard, Ohio St. Hort. Soc. Proc. 58, 79, 1925.  
Hutchings, Quebec Soc. Protec. Pl. R. 18, 114, 1925-1926.  
Jardine, USDA FHB SRA 87, 44-48, '26.  
McLaine, Nova Scotia Sec. Agr. R. f. 1925, 54-58, 1925.  
McLaine, Ont. Ent. Soc. R. 57, 21, 1927.  
O'Kane, N. H. Dept. Agr. Bien. R. 8, 258-259, 1928.  
O'Kane, N. H. Dept. Agr. Bien. R. 8, 269-278, (1928).  
iPerison, Me. For. Serv. B. 5, 91, 1927.  
Spittall, Proc. Acad. Ent. Soc. 10, 62, 1925.  
iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 16-18, 1926.  
Trafton, Me. St. Bd. Agr. R. 22, 45-46, 1926.
- Euproctis chrysorrhoea—Parasites**  
Burgess, J. Ec. Ent. 19, 289-294, 1926.  
biBurgess & Crossman, U. S. D. A. Tech. B. 86, 1929, 147p.
- Euproctis chrysorrhoea—Quarantine**  
Jardine, U. S. F. H. B. Not. Quar. 45, Amend. 1, 1925, 4pp.  
iJardine, USFHB SRA 91, 62-68, 1927.  
Jones, Wis. Dept. Agr. B. 69, 90-91, 1924.  
Marvin, USFHB SRA 87, 43-44, 1926.
- Marvin, USDA FHB SRA 91, 61-62, 1927.
- Rogers, J. Ec. Ent. 18, 481-486, 1925.
- Strong, Cal. Dept. Agr. Mo. B. 17, 67, 1928.
- USDA FHB SRA 85, 94-97, 1925.
- Euprosopomyia n. gen., maculosa**  
nMalloch, PUSNM 74: 6, 17-18, 1929.
- Eupsalis minuta (Oak timber worm)**  
Fletcher, Can. Ent. 61, 260, 1929.
- Eupteromalus nidulans**  
ilBurgess & Crossman, U. S. D. A. Tech. B. 86, 138-142, 1929.  
Hergula, Internat. Corn Borer Invest. Sci. R. 2, 125-127, 1929.  
bMuesebeck & Dohanian, U. S. D. A. B. 1487, 28-29, 1927.
- Eupteromalus viridescens**  
Baldus, Ohio J. Sci. 29, 226-227, 237, 1929.
- Eupteryginae**  
McAtee, J. N. Y. Ent. Soc. 34, 141-174, 1926.
- Eupteryx flavoscuta**  
McBride, Fla. St. Hort. Soc. Proc. 39, 224-227, 1926.
- Eupteryx spp.**  
McAtee, Ent. News 36, 88, 1925.
- Eurema biedermanni**  
nEhrmann, Brklyn. Ent. Soc. B. 20, 84, 1925.
- Eurema euterpe**  
Clark, Psyche 32, 298, 1925.
- Eurema lisa**  
Rogers, Brklyn. Ent. Soc. B. 22, 125, 1927.
- Eurema mexicana, nicippe**  
Comstock, So. Cal. Acad. Sci. B. 25, 64, 1926.
- Eurema priddy, pseudomorpha**  
nbiKlots, Ent. Amer. 9, 122-124, 1928.
- Eurema spp.**  
ibKlots, Ent. Amer. 9, 99-163, 1928.  
iKlots, J. N. Y. Ent. Soc. 36, 61-71, '28.
- Eurhexius macrodactylus**  
niFletcher, Ann. Ent. Soc. Amer. 21, 203-205, 1928.
- Eurhimyia lineatus**  
Curran & Fluke, Wis. Acad. Sci. Tr. 22, 276-278, 1926.
- Eurois herbida**  
McDunnough, Can. Ent. 59, 66, 1927.

- European beech bark louse, Beech scale,\*  
see *Cryptococcus fagi*
- European codling moth, see *Carpocapsa splendana*
- \*European corn borer, see *Pyrausta nubilalis*
- \*European earwig, see *Forficula auricularia*
- \*European elm scale, see *Gossyparia spuria*
- European foul brood, see Foulbrood, European.
- European fruit lecanium, see *Lecanium corni*
- \*European fruit scale, see *Aspidiotus ostreaeformis*
- European grain moth, see *Tinea granella*
- European hen flea, see *Ceratophyllus gallinae*
- European hornet, see *Vespa crabro*
- European leaf mining sawfly, Birch leaf miner, see *Fenusa pumila*
- European peach aphid, see *Anuraphis prunicola*
- \*European peach scale, see *Lecanium persicae*
- \*European pine shoot moth, see *Rhyacionia buoliana*
- European praying mantis, see *Mantis religiosa*
- \*European red-mite, see *Paratetranychus pilosus*.
- European rose sawfly, Curled rose slug, see *Emphytus cinctus*.
- \*European spruce beetle, see *Dendroctonus micans*.
- European willow beetle, see *Plagiodera versicolora*.
- Euryps fervida*, frugivorus  
nBlatchley, Can. Ent. 60, 66-67, 1928.
- Eurosta solidaginis*  
Curran, Can. Ent. 57, 128-129, 1925.
- Eurrhyncha urticata*  
Johnson, Psyche, 34, 176-177, 1927.
- Eurychloptera barberi*, brunneata  
nKnight, Brklyn Ent. Soc. B. 22, 140-141, 1927.
- Eurygenius parvicornis*, perforatus  
nFall, Bklyn. Ent. Soc. B. 24, 333-334, 1929.
- Euryglossa albosignata*  
mCockerell, Am. Mus. Novit. 346, 10, 1929.
- Eurymene emargataria*  
Barnes & Benjamin, Pan Pacific Ent. 4, 135-136, 1928.
- Eurymus eurythyme* (Alfalfa caterpillar)\*  
Bell, Brooklyn Ent. Soc. B. 21, 26, '26.  
Brower, J.N.Y. Ent. Soc. 37, 437, 1929.  
Clark, Psyche 32, 297, 1925.  
Clark, Psyche, 36, 29, 1929.  
Cal. Cult. 73, 202, 1929.  
Fernald, Applied. Ent. ed. 2, 278, 1926.
- Eurymus interior*  
Rogers, Brklyn. Ent. Soc. B. 24, 308, 1929.
- Eurymus philodice* (Clouded sulphur)  
Bell, Brklyn. Ent. Soc. B. 21, 26, '29.  
Clark, Psyche 32, 297, 1925.
- Eurymycter fasciatus*  
Fletcher, Can. Ent. 61, 260, 1929.
- Euryophthalmus balteatus*  
nHussey, Brooklyn Ent. Soc. B. 22, 228, 1927.
- Euryophthalmus convivus*  
Goldsworthy, Phytopath. 16, 882, 1926.
- Euryophthalmus priscillae*  
nHussey, Brklyn. Ent. Soc. B. 22, 227, 1927.
- Euryopsis nigripes*  
nBanks, B. Harvard Mus. Comp. Zool. 69, 86-87, 1929.
- Eurypelma californica*  
libBaerg, Quart. Rev. Biol. 3, 109-116, 1927.
- ibBaerg, Ann. Ent. Soc. Amer. 22, 161-167, 1929.
- Barrows, Ann. Ent. Soc. Amer. 18, 492, 1925.
- Ewing, Am. J. Pharm. 100, 535, 1928.
- iEwing, Amer. Jour. Trop. Med. 8, 43-46, 1928.
- Ewing, U.S. Naval Med. B. 26, 697, '28.
- Eurypelma duplex*, epicureana  
niChamberlin, Proc. Cal. Acad. Sci. ser. 4, 14, 106-108, 1925.
- Eurypelma hentzii*  
iRau, Psyche 32, 1-3, 1925.
- Eurypelma stoica*  
niChamberlin, Proc. Cal. Acad. Sci. ser. 4, 14, 109, 1925.

- Euryscapus saltator**  
iPhillips & Poos, J. Agr. Res. 34, 473-488, 1927.
- Euryscopa alicula**  
nFall, Cal. Acad. Sci. Proc. ser. 4, 16, 383-384, 1927.
- Eurysystole beenleighi**  
nGirault, Ins. Insc. Mens. 14, 70-71, '26.
- Eurythmia anthophila, hospitella**  
nDyar, Ins. Insc. Mens. 13, 226, 1925.
- Eurythrips cinetus**  
nWilder, Psyche 34, 245-246, 1927.
- Eurythrips collaris**  
nHood, Psyche 32, 58, 1925.
- Eurythrips gracilicornis**  
nHood, Psyche 32, 59, 1925.
- Eurythrips harti**  
nHood, Ent. News 36, 135-137, 1925.
- Eurythrips macrops, tarsalis**  
nHood, Can. Ent. 57, 219-221, 1925.
- Eurytoma appendigaster**  
biMuesebeck & Dohanian, U.S.D.A. B. 1487, 20-21, 1927.
- Eurytoma nigripedicel**  
nGirault, Ins. Insc. Mens. 13, 99, 1925.
- Eurytoma orchidearum (Orchid fly)\***  
bDoucette, J. Ec. Ent. 18, 143-147, 1925.  
lEssig, Insects of Western No. Amer. 1926, 946.
- Eurytoma parva**  
ibPhillips, J. Agr. Res. 34, 743-758, 1927.
- Eurytoma pissodis**  
Taylor, Entom. Amer. 9, 208, 228-237, '29.  
ibTaylor, Ent. Amer. 10; 60-62, 1929.
- Eurytoma sp.**  
lBrannon, Elisha Mitchell Sci. Soc. J. 42, 99-100, 1926.
- Eurytoma tasmaniensis**  
nGirault, Ins. Insc. Mens. 14, 131, 1926.
- Eurytoma tylodermatis**  
Fenton & Dunham, U. S. D. A. Tech. B. 112, 68, 1929.
- Eurytomidae**  
Balduf, Can. Ent. 58, 160-161, 1926.
- Euryurus erythropygus**  
liMiley, Ohio J. Sci. 27, 25-41, 1927.
- Eusapyga intermedia**  
nRoberts, Psyche, 36, 361-362, 1929.
- Euscelis—genus—No. Amer.**  
ibSleesman, Ent. Amer. 10, 81-149, 1929.
- Euscelis almus**  
nVan Duzee, Proc. Cal. Acad. Sci. ser. 4, 14, 421-422, 1925.
- Euscelis bicolor**  
Osborn, J. Ec. Ent. 19, 103, 1926.  
Osborn, Ref. Bk. Sugar Indus. of World 4, 48, 1926.
- Euscelis caudatus**  
nOsborn, Ann. Ent. Soc. Amer. 19, 349, 1926.
- Euscelis exitiosus**  
Crosby, J. Ec. Ent. 19, 812, 1926.
- Euscelis finitimus**  
nVan Duzee, Proc. Cal. Acad. Sci. ser. 4, 14, 422, 1925.
- Euscelis gentilis**  
nVan Duzee, Proc. Cal. Acad. Sci. ser. 4, 14, 420-421, 1925.
- Euscelis obscurinervis**  
Lawson, Ann. Ent. Soc. Amer. 19, 74, 1926.  
Lawson, Kans. Ent. Soc. J. 2, 44, 1929.  
Osborn, J. Ec. Ent. 19, 103, 1926.  
Osborn, Ref. Bk. Sugar Indus. of World 4, 48, 1926.  
Osborn, Porto Rico Dept. Agr. J. 13, 96-97, 1929.
- Euscelis obtusus**  
Osborn, J. Ec. Ent. 19, 103, 1926.  
Osborn, Ref. Bk. Sugar Indus. of World 4, 48, 1926.
- Euscelis pallidus**  
nOsborn, Ann. Ent. Soc. Amer. 19, 348, 1926.
- Euscelis stactogalus**  
Lawson, Ent. Soc. Amer. Ann. 22, 130, 1929.
- Euscelis striatulus (Blunt-nosed leafhopper)**  
Beckwith, Amer. Cranb. Assoc. Proc. 58, 15, 1928; 59, 21, 1929; 60, 16-19, '29.  
Beckwith & Hutton, N. J. B. 491, 1929, 16 p.  
Beckwith & Hutton, J. N. Y. Ent. Soc. 37, 425-426, 1929.  
iDobrosky, Amer. Cranb. Assoc. Proc. 58, 7, 1928.
- Euscepes deceptus**  
nBlatchley, J.N.Y. Ent. Soc. 33, 106, 1925.

- Euschistus atromaculosus**  
niBarber, Bklyn. Ent. Soc. B. 22, 241-243, 1927.
- Eusemion californicum**  
iniCompere, Cal. Univ. Tech. B. Ent. 3; 3, 304-308, 1925.  
Smith & Compere, Cal. Univ. Pub Ent. 4, 275, 1928.
- Eusemionella burnsi, divina**  
nGirault, Ins. Insc. Mens. 14, 69-70, 1926.
- Eusphyrus walshi**  
Blatchley, J. N. Y. Ent. Soc. 33, 88, 1925.
- Eustala conformans, tuceps**  
nChamberlin, B. Harvard Mus. Comp. Zool. 67, 216-217, 1925.
- Eustictus ainsliei**  
nKnight, Psyche 33, 121, 1926.
- Eustictus albocuneatus**  
nKnight, Brklyn. Ent. Soc. B. 22, 139, 1927.
- Eustictus claripennis** 40, **minimus** 37, **morrisoni** 38, **obscurus** 37; nKnight, Brklyn. Ent. Soc. B. 20, 1925.
- Eustictus pilipes**  
nKnight, Psyche 33, 122-123, 1926.
- Eustictus productus**  
Knight, Brklyn. Ent. Soc. B. 20, 38, 1925.
- Eustictus pubescens, spinipes**  
nKnight, Psyche 33, 122, 123, 1926.
- Eusticus tibialis**  
Knight, Brklyn. Ent. Soc. B. 22, 139-140, 1927.
- Eustillus apicalis**  
Pettit, Mich. Ent. R. 1926, 19, 1926.
- Eustollia n. gen.**  
Goding, Trans. Amer. Ent. Soc. 52, 105, 1926.
- Eustrigophilus n. gen.**  
Ewing, Proc. Ent. Soc. Wash. 28, 148, 1926.
- Eustrophinus ornatus**  
nVan Dyke, Brklyn. Ent. Soc. B. 23: 251-252, 1928.
- Eusysia debilis**  
bMuesebeck & Dohanian, U.S.D.A. B. 1487, 19, 1927.
- Eutelina pertanda**  
nDyar, Ins. Insc. Mens. 13, 3, 1925.
- "Eutermes" gen.**  
Snyder, Proc. Biol. Soc. Wash. 38, 160-161, 1925.
- Eutermes morio**  
Watson, Fla. Farm. 32; 2, 19, 1929.
- Eutettix chenopodii**  
lbCarpenter, Kans. Univ. Sci. B. 18: 457-483, 1928.
- Eutettix strobili**  
iFenton, Iowa Acad. Sci. Proc. 31, 437-440, 1924.
- Eutettix tenella (Beet leafhopper)\***  
Carsner, Official Record 4; 34, 3, 1925.  
iCarter, Ecology 8, 350-352, 1927.  
Carter, Facts about Sugar 24, 219, 1929.  
Carter, Facts about sugar 24, 306, 309, 1929.  
Carter, J. Ec. Ent. 22, 154-158, 1929.  
iCarter, J. Agr. Res. 34, 449-451, 1927.  
ibCarter & Cotner, J. Ec. Ent. 22, 237-241, 1929.  
Cooley, Mont. B. 200, 7-8, 1927.  
Carter & Crawford, J. Ec. Ent. 22, 158-160, 1929.  
Davis, J. Ec. Ent. 20, 581-586, 1927.  
DeLong, J. Ec. Ent. 18, 637-638, 1925.  
ibEssig, Insects of Western No. Amer. 1926, 211-213.  
Felt, N.Y. St. Mus. B. 274, 81-82, 1928.  
Garcia, N. M. Ann. R. 39, 22, 1927-28 (1928).  
Haegle, Idaho B. 156, 1927, 28 p.  
Hawley, Utah C. 54, 3-8, 1925.  
Hermes, J. Ec. Ent. 19, 268, 1926.  
Hermes, J. Ec. Ent. 22, 52-53, 1929.  
Hungerford, Ida B. 160, 21, 1928.  
Jardine, Oreg. Bien. Rept. 1924-1926, 102, 1926.  
bJones, J. Ec. Ent. 22, 243-245, 1929.  
iKnowlton, Utah B. 205, 1928, 23 p.  
ibKnowlton, Utah B. 212, 1929, 24 p.  
Mahoney, Cal. Dept. Agr. Mo. B. 18, 643-644, 1929.  
Merrill, Cal. R. f. 1925-26, 66-67.  
Merrill, Cal. R. f. 1927-28, 74, 1929.  
Metcalf, N. C. R. 40, 68, 1926.  
Parker & Mabey, Mont. B. 216, 13-15, 1928.  
Plakidas, J. Agr. Res. 35, 1077-1087, 1927.

- Schwing, J. Ec. Ent. 20, 645-646, 1927.  
 Severin, J. Ec. Ent. 18, 730-733, 1925.  
 ibSeverin, & Schwing, J. Ec. Ent. 19, 478-483, 1926.  
 Severin & Severin, J. Ec. Ent. 20, 586-588, 1927.  
 Watson, Fla. R. f. 1925, 41R.
- Eutettix tenella & curly top**  
 iAdams, Cal. C. 302, 25-29, 1926.  
 Borden, Cal. R. f. 1925-26, 66-67.  
 iCarsner, J. Agr. Res. 33, 345-348, 1926.  
 Carsner, USDA YB 1927, 603-605, '28.  
 Carter, J. Ec. Ent. 20, 714-717, 1927.  
 ibCarter, Phytopath. 18, 675-679, 1928.  
 Knowlton, Utah C. 65, 3-12, 1927.  
 Severin, J. Ec. Ent. 18, 733-737, 1925.  
 Severin, Science 66, 137-138, 1927.  
 Severin, Cal. B. 465, 6, 1929.  
 Severin & Henderson, Hilgardia 3, 339, 1928.
- ibSeverin & Swezy, Phytopathology, 18, 681-690, 1928.  
 Starrett, Phytopath. 19, 1031-1035, '29.  
 Tehon, Ill. Nat. Hist. Surv. B. 17, 327-331, 1928.
- Eutettix tenella & tomato yellows**  
 Merrill, Cal. R. f. 1927-28, 38, 1929.  
 Severin, Hilgardia 3, 251-272, 1928.
- Eutheresia interrupta**  
 nCurran, Can. Ent. 61, 33, 1929.
- Eutheresia satisfacta, sibleyi**  
 nWest, J.N.Y. Ent. Soc. 33, 129-130, 1925.
- Eutheresia trivittata**  
 nCurran, Can. Ent. 61, 33, 1929.
- Euthrips biguttaticorpus, bilongilineatus**  
 nGirault, Ins. Insc. Mens. 13, 34, 1925.
- Euthyplocia hecuba**  
 Needham & Murphy, Lloyd Lib. B. 24, 24-25, 1924.
- Euthyrhynchus floridanus**  
 iWatson, Fla. B. 183, 389, 1927.
- Euthysanius blaisdelli**  
 bniTanner, Pan-Pacific Ent. 2, 188-190, 1926.
- Euthysanius horni, imparoculatus**  
 nFall, Psyche 35, 139-141, 1928.
- Eutolyte rolandi**  
 Engelhardt, Brklyn. Ent. Soc. B. 20, 59, 1925.
- Eutreta angusta, hespera**  
 nBanks, Psyche 33, 44, 1926.
- Eutrixopsis javana**  
 Aldrich, P.U.S.N.M. 66: 18, 35-36, 1925.
- ieClausen et al, USDAB 1429, 19-20, '27.
- Eutrombidium trigonum**  
 Miller, Ohio B. 386, 115-117, 1925.
- Eutryonia gracilis**  
 nGoding, J. N. Y. Ent. Soc. 34, 243-244, 1926.
- Eutylistus tristriatus**  
 Blatchley, Can. Ent. 57, 166, 1925.
- Euvanessa antiopa, see Aglais antiopa.**
- Euwalkeria n. gen.**  
 Goding, Trans. Amer. Ent. Soc. 52, 104, 1926.
- Euxanthellus sp., subochraceus**  
 iSmith & Compere, Cal. Univ. Pubs. in Ent. 4, 264-269, 1928.
- Euxenister wheeleri**  
 niMann, Psyche 32, 173-176, 1925.
- Euxenus ater**  
 nBlatchley, J.N.Y. Ent. Soc. 36, 238, '28.
- Euxesta notata (Spotted root fly)**  
 Boyce, J. Ec. Ent. 22, 865-866, 1929.  
 Merrill, Cal. R. f. 1927-28, 33, 1929.  
 Quayle, Cal. C. 315, 16-17, 1929.  
 Cal. Agr. Mo. B. 16, 30, 1927.
- Euxestonotus, new gen. 98-99, brevicornis 99-100, flavipes 99, rufidens 99.**  
 nFouts, Proc. Ent. Soc. Wash. 27, 1925.
- Euxoa auxillaris, see Chorizagrotis auxillaris (Army cutworm)\***
- Euxoa bostoniensis (Drab cutworm)**  
 Crumb, U.S.D.A. Tech. B. 88, 89-90, '29.
- Euxoa cooki**  
 nMcDunnough, Can. Ent. 57, 243-244, '25.
- Euxoa decora**  
 McDunnough, Can. Ent. 59, 65, 1927.
- Euxoa excellens**  
 Downes, Proc. Ent. Soc. B. C. 25; 17, 1928.
- Euxoa lilloet, macleani**  
 nMcDunnough, Can. Ent. 59, 195-196, 1927.
- Euxoa messoria (Dark-sided cutworm)\***  
 iCrumb, U. S. F. B. 1494, 6, 1926.  
 iCrumb, U.S.D.A. Tech. B. 88, 90-94, '29.  
 Mitchener, Sci. Agr. 8, 370-375, 1928.  
 iPettit, Mich. Ent. R. f. 1926, 19-20.

- Euxoa messoria* *Cont'd*  
 iPettit, Mich. St. Bd. Agri. R. 65, 280-281, 1926.
- Euxoa ochrogaster* (Red-backed cutworm)\*  
 iCaesar, Ont. Dept. Agr. B. 325, 6-8, 1927.  
 iKing, Canada Dept. Agr. Ent. Br. Pam. 69, 1926, 13 p.  
 bKing & Atkinson, Sci. Agr. 7, 86-91, 1926.  
 King & Atkinson, J. Ec. Ent. 20, 821-830, 1927.  
 King & Atkinson, Ann. Ent. Soc. Amer. 21, 167-188, 1928.
- Euxoa ridingsiana*  
 McDunnough, Can. Ent. 57, 242-244, 1925.
- Euxoa setonia*  
 nMcDunnough, Can. Ent. 59, 194-195, 1927.
- Euxoa tessellata* (Striped cutworm)\*  
 lCrumb, U. S. D. A. Tech. B. 88, 94-96, 1929.
- Euxoga amatura*  
 nSchaus, P. U. S. N. M. 73; 19, 44, 1928.
- Euzenillopsis diatraeae*  
 Earle, Facts about sugar 22, 969, 1927.  
 Van Zwaluwenburg, J. Ec. Ent. 19, 667, 1926.
- Euzercon latus*  
 Miller, Ohio B. 386, 134, 1925.
- Euzophera semifuneralis*  
 Bottimer, J. Agr. Res. 33, 803, 1926.  
 Hamilton, N. J. R. 47, 197-198, 1927.
- Evarthrus Iodangi, montanus*  
 nVan Dyke, Pan-Pac. Ent. 2, 116-119, '26.
- Everes amyntula*  
 iGunder, Can. Ent. 59, 283, 1927.
- Everes comyntas*  
 iGunder, Can. Ent. 59, 284, 1927.  
 Nakahara, Brklyn. Ent. Soc. B. 20, 224, 1925.
- Evergestis straminealis* (Purple-backed webworm)  
 Chittenden, J. Ec. Ent. 19, 189, 1926.
- Evergreen span-worm*, *see* *Nepytia contracta*
- Evetria buoliana*, *see* *Rhyacionia buoliana*
- Evetria frustrana*, *see* *Rhyacionia frustrana*
- Evippe abdita*  
 nBraun, Trans. Amer. Ent. Soc. 51, 190-191, 1925.
- Eviridemas*—n. gen.  
 nBarnes & Benjamin, Bklyn. Ent. Soc. B. 24, 166-167, 1929.
- Evora*, n. gen.  
 iHeinrich, U.S.N.M.B. 132, 189-190, '26.
- Ewingia cenobitae*  
 Pearse, Carnegie Inst. Wash. Pub. 391, 227, 1929.
- Ewingidae*  
 Pearse, Carnegie Inst. Wash. Pub. 391, 227, 1929.
- Exartema brevirostratum* 154-155, *exaeresimum* 160-161, spp.—key 131-135, *tenebricum* 144-145, *trapidulum* 147-148.  
 niHeinrich, U. S. N. M. B. 132, 1926.
- Exechia aequalis* 54, *angustata* 56, *bor-ealis* 53, *brevipetiolata* 55, *cincinnati* 55, *noctivagus* 54-55, *umbrosa* 56-57, *unicincta* 57-58, *unicolor* 53.  
 niVan Duzee, Cal. Acad. Sci. Proc. 17; 2, 1928.
- Exema conspersa*  
 Brisley, Trans. Amer. Ent. Soc. 51, 168, 1925.
- Exentera oregonana*  
 de Gryse, Can. Dept. Agr. Ent. Br. Pam. 47, n.s., rev. ed. 12-13, 1925.
- Exeristes consimilis*  
 Girault, Ins. Insc. Mens. 13, 37, 1925.
- Exeristes roborator*  
 Baird, J. Ec. Ent. 18, 758, 1925.
- lbiFox*, Can. Nat. Res. Coun. R. 21, 1927, 58 p.  
 iJones, U.S.D.A. Tech. B. 98, 8-12, 1929.  
 McLaine, Ont. Ent. Soc. R. 57, 22, 1927.  
 iPettit, Mich. C. B. 70, 7-9, 1925.  
 Vandenberg, Guam R. f. 1926, 18, 1928.  
 J. Ec. Ent. 18, 432, 1925.
- Exitianus*—n. gen.  
 nBall, Trans. Amer. Ent. Soc. 55, 5, 1929.
- Exochomus bivulnerus*  
 Smith, Cal. Cit. 9, 344, 1925.

- Exochomus marginipennis**  
Cole, Fla. St. Hort. Soc. Proc. 39, 156, 1926.  
Watson, Fla. B. 183, 306, 1926.
- Exochomus nigromaculatus**  
Smith, Citrus Leaves 5; 8, 3, 1925.
- Exochomus quadripustulatus**  
Merrill, Cal. R. f. 1927-28, 34, 1929.
- Exochorda grandiflora**  
iBritton & Zappe, Conn. B. 292, 159, 1927.
- Exoclaenoides**  
Girault, Ins. Insc. Mens. 14, 127, 1926.
- Exomalopsis chionura**  
nCockerell, Proc. Cal. Acad. Sci. ser. 4, 14; 11, 203, 1925.
- Exoprosopa siphio**  
nAldrich, P. U. S. N. M. 74; 2, 2-3, 1928.
- Exopthalmus quadrivittatus**  
liWolcott, Wash. Ent. Soc. Proc. 31, 21-31, 1929.
- Exoteleia dodecella**  
Motherwell, Can. Min. Agr. R.f.'29, 124.
- Eye-spotted budmoth, see Tmetocera ocellana**
- \*Eyed click beetle, see Alaus oculatus**
- Fabriciella lutzii**  
nCurran, Can. Ent. 57, 256-257, 1925.
- Falcicula hebardei**  
Allard, Smithson. R. f. 1928, 587, 1929.
- \*Fall armyworm, see Laphygma frugiperda**
- \*Fall canker worm, see Alsophila pometaria**
- \*Fall webworm, see Hyphantria cunea**
- Fallow ant, see Formica rufa**
- \*False chinch bug, see Nysius ericae**
- False pine webworm, see Lyda sp.**
- \*False potato beetle, see Leptinotarsa juncta**
- False tarnished plant bug, see Lygus inuitus**
- Fannia americana**  
niMalloch, Proc. Ent. Soc. Wash. 29, 176, 1927.
- Fannia brevis**  
Carr, U.S. Naval Med. B. 25, 522, 1927.
- Fannia canicularis**  
Chandler, Animal Parasites, ed. 3, 525, 1925.
- iDetwiler, Ont. Ent. Soc. R. 59, 57-59, 1929.
- Gibson & Twinn, Can. Dept. Agr. B. 112, 13, 1929.
- Tao, Amer. J. Hyg. 7, 754-755, 1927.
- Fannia nidicola**  
niMalloch, Proc. Ent. Soc. Wash. 29, 92-93, 1927.
- Fannia scalaris**  
Gibson & Twinn, Can. Dept. Agr. B. 112, 13, 1929.
- Tao, Amer. J. Hyg. 7, 755, 1927.
- Farigia alicia** 13-14, **liboria** 12, **luicana** 12-13, **sennen** 14, **theliana** 13.  
nSchaus, P. U. S. N. M. 73; 19, 1928.
- Farm insects**  
Brittain, N. S. Dept. Nat. Resources B. 12, 1927, 157 p.  
Haseman, Mo. Farm. 21, 281, 1929.  
Haseman, Mo. Farm. 21, 457, 1929.  
Swenck, Neb. Bd. Agr. R. f. 1927, 147-148.
- Fazia—n. gen., australis bullaephora**  
nShannon, P.U.S.N.M. 70; 9, 25-27, '27.
- Feather mite, see Liponyssus silviarum**
- Feltia annexa, (Granulate cutworm)\***  
ibiCrumb, U.S.D.A. Tech. B. 88, 75-82, '29.  
Sherman, N. C. R. 47, 73, 1925.  
Wolcott, P. R. Dept. Agr. J. 9, 51, 1925.
- Feltia buchholzi**  
nBarnes & Benjamin, Bklyn. Ent. Soc. B. 24, 164-165, 1929.
- Feltia ducens**  
iCrumb, U. S. F. B. 1494, 4-5, 1926.  
ibiCrumb, U.S.D.A. Tech. B. 88, 59-68, '29.
- Feltia gladiaria**  
iCrumb, U. S. F. B. 1494, 5-6, 1926.  
ilbCrumb, U.S.D.A. Tech. B. 88, 68-73, '29.  
Sherman, N. C. R. 47, 73, 1925.
- Feltia malefida**  
iCrumb, U.S.D.A. Tech. B. 88, 82-87, '29.
- Feltia subgothica (Dingy cutworm)\***  
ibiCrumb, U.S.D.A. Tech. B. 88, 59-68, '29.
- Feltia venerabilis**  
ibCrumb, U.S.D.A. Tech. B. 88, 73-75, '29.
- Feltiella ithacae**  
nFelt, Ent. News 37, 141, 1926.
- Feniseca tarquinius**  
Clark, Psyche 32, 295-296, 1925.  
Clark, Smiths. Inst. R. f. 1925, 444, '26.



- Fennel Butterfly, Black swallowtail, see**  
*Papilio polyxenes*
- Fentonia abraama, cantiana**  
 nSchaus, P.U.S.N.M. 73; 19, 78-80, 1928.
- Fentonia dorothea**  
 Barnes & Benjamin, Can. Ent. 59, 9-10, 1927.
- Fentonia eingana 80, erconvalda 78, gualberta 77-78, maguila 80-81, mangholda 79**  
 nSchaus, P.U.S.N.M. 73; 19, 1928.
- Fenusa pumila (Birch leaf miner)**  
 Bailey, Conn. Agr. Vt. Bien. R. 13, 57-58, 1926.  
 Britton, J. Econ. Ent. 19, 543-544, 1926.  
 iBritton & Zappe, Conn. B. 292, 143, 1927.  
 Felt, N. Y. St. Mus. B. 260, 49, 1925.  
 Felt, N. Y. St. Mus. B. 267, 41, 1926.  
 Felt, J. Ec. Ent. 20, 64-65, 1927.  
 Felt, N.Y. St. Mus. B. 274, 162-163, 1928.
- Feralia deceptiva**  
 Barnes & Benjamin, Bklyn. Ent. Soc. B. 20, 99, 1925.
- \*Fern scale, see Hemichionaspis aspidistrae**
- Fernaldaepsithyrus—n. subgen.**  
 nFrison, Trans. Amer. Ent. Soc. 53, 70, 1927.
- Fessonia longilinealis**  
 Miller, Ohio B. 386, 112, 1925.
- Ficalbia chamberlainii, ludlowi, luzonensis; Dyar & Shannon, Ins. Insc. Mens. 13, 82, 83, 1925.**
- Fidia viticida (Grape root worm)\***  
 Eyer & McCubbin, Pa. Dept. Agr. Gen. B. 443, 6-7, 1926.  
 Hartzell, N.Y. Geneva B. 519, 1924, 29 p.  
 iPettit, Mich. Ext. B. 80, 1929, 3 p.  
 Runner, Ohio St. Hort. Soc. Proc. 59, 34, 1926.  
 Sears, Productive Small Frt. Cult. ed. 2, 336-337, 1925.
- \*Field cricket, see Gryllus assimilis**
- Field crop insects**  
 iBorodin, Internat. Cong. Ent. 4, Tr. 2, 982-991, 1929.  
 Britton, Conn. B. 285, 117-179, 1926.  
 Hutchings, Ont. Ent. Soc. R. 57, 7-8, 1927.  
 Hutchings, Ont. Ent. Soc. R. 58, 7-9, 1928.  
 King, Ont. Ent. Soc. R. 58, 50-51, 1928.
- iKing, Internat. Cong. Ent. 4, Tr. 2, 248-258, 1929.**
- King, Sci. Agr. 9, 373-390, 1929.**
- Lieber, Ind. Dept. Conserv. R. 9, 50-54, 1927.**
- O'Dell, Ariz. Com. Agr. Hort. R. 15-16, 58-59, 65-66, 1925.**
- Pettit, Mich. St. Bd. Agr. R. 63, 665-720, 1924.**
- Fig insects**  
 iGrandi, Philippine J. Sci. 33; 3, 309-329, 1927.  
 blagan, J. Ec. Ent. 22, 900-909, 1929.  
 Horton, U.S.F.B. 1031, rev. O, 1926, 28-34.
- Filbert bud mite, see Eriophyes avellanae**
- Fiorinia floriniae**  
 Severin, So. Dak. Ent. R. 15, 28-29, 1924.
- Fir scolytus, see Scolytus ventralis**
- Fir weevil, see Pissodes dubius**
- \*Fire ant, see Solenopsis geminata**
- Fire blight—Transmission by insects**  
 Jones, Sci. Agr. 9; 7, 458-462, 1929.  
 bRosen, J. Agr. Res. 37, 493-504, 1928.  
 Tullis, Mich. Tech. B. 97, 3-9, 1929.
- \*Fire brat, see Lepisma domestica**
- Fireflies**  
 Creighton, Sci. n.s. 63, 600-601, 1926.  
 Harvey & Hall, Sci. n.s. 69, 253-254, 1929.  
 Morrison, Sci. n.s. 69, 400-401, 1929.
- Firneedle span worm, see Eupithecia luteata**
- Fish & Mosquitoes**  
 Hanson & Dunn, Mil. Surg. 57, 232-241, 1925.  
 iHildebrand, U.S. Pub. H. B. 153, 1925, 136 p.  
 iJordan, Sci. Amer. 134, 296, 1926.  
 iJordan, Sci. Amer. 134, 397, 1926.  
 iJordan, Smithsonian Inst. R. f. 1926, 361-368, 1927.  
 Lenert, Cal. St. Bd. Health Bien. R. 29, 82-85, 1926.
- ibMoore, U. S. Com. Fisheries R. 1922, Apx. 4 (Fish. Doc. 923, 1922), 60 p.**
- Myers, Fish Cult. 5; 4, 27-29, 1925.**
- Myers, Copeia, 166, 5, 1928.**
- Fishes—Insect food of**  
 Ricker, Sci. News Letter 16; 459, 322, 1929.

**Fitchia aptera**

Hutchison, Bklyn. Ent. Soc. B. 22, 79, 1927.

Five-spined yellow pine engraver, *see* *Ips confusus*

Flannel moth, *see* *Lagoa crispata*

Flat grain beetle, *see* *Cryptolestes pusillus*

\*Flat-headed apple tree borer, *see* *Chrysobothris femorata*

**Flatheaded borers**

Johnstone, Cal. Cult. 69, 447, 1927.

Keen, Cal. Dept. Nat. Resources B. 7, 57-58, 1928.

Flat-headed hemlock borer, *see* *Melanophila fulvoguttata*

**Flea beetles**

Armstrong, Wash. Farm. 54, 93, 1928.

Christie, Ind. R. 41, 44, 1928.

Compton, Ill. Hort. Soc. Trans. 59, 314-315, 1926.

Davis, So. Ruralist 36; 3, 15, 1929.

MacLeod, Penn. St. Ext. C. 122, 13-14, 1929.

Whelan, Market Grow. J. 38, 44, 1926.

Wilson, Utah C. 63, 33-34, 1927.

**Flea circus**

May, Pop. Mech. 49, 227-229, Feb. 1928.

Montague, Amer. Mag. 105, 67-68, May 1928.

Montague, Lit. Digest 97, 45-46, Je. 30, 1928.

**Fleas**

A. A. S., Rur. N. Y. 85, 1547, 1926.

Bishopp, U.S.F.B. 897, rev. Apr. 1928, 16 p.

Bishopp, Ariz. Cattleman & Farm. 12; 41, 4, 1929.

Bishopp, Farm & Ranch, 48; 37, 18, 1929.

Bishopp, Idaho Farm. 44, 199, 1929.

Bishopp, Oreg. Farm. 49, 199, 1929.

iCarrion, P. R. Rev. Pub. Health 3; 4, 131-145, 1927.

iChandler, Animal Parasites ed. 3, 404-423, 1925.

Cox et al, U.S. Pub. Health R. 43, 611-616, 1928.

Felt, N. Y. St. Mus. B. 274, 39-40, 1928.

Fernald, Applied Ent. ed. 2, 336, 1926.

Flynn, North Amer. Vet. J. 64, 46-48, 1925.

Gibson & Twinn, Can. Dept. Agr. B. 112, 19-20, 1929.

iHungerford, Kans. St. Bd. Agr. Bien. R. 24, 84-86, 1924.

M. B. D., Rur. N. Y. 88, 692, 1929.

iMcDaniel, Mich. C. B. 94, 1926, 8 p.

Price, Ohio Vet. Alumni Q. 17; 1, 31-32, 1929.

Ragot, J. N. Y. Ent. Soc. 36, 106, 1928.

iSchwartz & Shook, U. S. D. A., F. B., 1568, 10, 1928.

W. R. M., Successful Farming, 24; 8, 15, 1926.

Weiss, J. N. Y. Ent. Soc. 33, 114, 1925.

bWilliams, U. S. Pub. Health R. 44; 9, 443-476, 1929.

**Fleas & disease**

Chandler, Animal Parasites, ed. 3, 83, 1925.

Hasseltine, U. S. Pub. Health, R. 44, 579-636, 1929.

iRiley, Nation's Health 7; 6, 406-407, 1925.

Rosenau, Preventive Med. ed. 5, 319-322, 1927.

**Fleas & plague**

Felt, N. Y. St. Mus. B. 274, 34-37, 1928.

Hicks, J. Hyg. 26, 163-169, 1927.

i——Nation's Health 7; 1, 55-56, 1925.

Rosenau, Preventive Med. ed. 5, 322-325, 1927.

**Fleas—Raising**

Rifenburgh, Proc. Ind. Acad. Sci. 36, 311-312, 1926.

**Flexamius surculus**

inDeLong & Slesman, Ann. Ent. Soc. Amer. 22, 99-100, 1929.

**Flexocentrus—n. gen.**

Goding, Trans. Amer. Ent. Soc. 52, 106, 1926.

**Flies**

iBeyer, La. St. Bd. Health, Quar. B. 16, 110-116, 1925.

iBishopp, Dairy F. 25, 12, 1927.

ibCarr, U. S. Naval Med. B. 25, 528-541, 1927.

biChamberlin, Med. Dept. U. S. Army World War 6, 293-304, 1926.

Davis, Ind. C. 150, 23, 1928.

iDuPuy, Outlook 139, 495-497, 1925.

**Flies *Cont'd***

- Ford, Cal. Cult. 64, 571, 1925.  
 Groth, N. Y. Prod. Rec. 63, 742, 1927.  
 iHungerford, Kans. St. Bd. Agr. Bien. R. 24, 86-89, 1924.  
 iHutchinson, Country Gentl. 90; 19, 12, 1925.  
 Jones, Cal. Cult. 65, 108, 1925.  
 Lodge, Nation's Health 7, 645, 1925.  
 McDaniel, Mich. C. 104, bis, 1927, 15 p.  
 McDaniel, Mich. C. B. 106, 1928, 15 p.  
 Nyhen, Brookline, Mass. Bd. Health R. f. 1924, 340-344, 1925.  
 Nyhen, Brookline, Mass. Bd. Health R. f. 1925, 168-170, 1926.  
 Winchell, Rur. N. Y. 84, 668, 1925.

**Flies—Affecting milk yield**

- iBishopp, Dairy Farm. 24; 13, 6-7, 1926.  
 biFreeborn, Regan & Folger, J. Ec. Ent. 18, 779-790, 1925.

**Flies and animal coloration**

- Hawden, Internat. Cong. Ent. 4, Tr. 2, 199-202, 1929.

**Flies and disease**

- iGlueck, Am. Vet. Med. Ass'n. J. 71, 574-577, 1927.  
 Rosenau, Preventive Med. ed. 5, 300-319, 1927.  
 U. S. Pub. Health Serv., Amer. J. Pharm. 100, 385-388, 1928.

**Flies—Blood sucking**

- iChandler, Animal Parasites, ed. 3, 463-508, 1925.

**Flies—Chemical sensitivity of the tarsi**

- ibiMinnich, Biol. B. 51, 166-178, 1926.

**Flies—Control**

- Brown, U.S.Vet.B. Med. B. 4, 347, 1928.  
 iCarr, U. S. Nav. Med. B. 25, 528-542, 1927.  
 Dewberry, J. State Med. 34, 326-342, 1926.  
 Eddy, Dairym. League News 13; 29, 14, 1929.  
 Jones, Cal. Cult. 65, 108, 1925.  
 bOrton & Weiss, Mycol. 17, 148, 1925.  
 Posson, Hoard's Dairym. 71, 107, 1926.  
 Twinn & Herman, Sci. Agr. 8, 441-445, 1928.  
 Ward, Flower Grow. 37; 10, 28, 1929.

**Flies—Larvae**

- Miller, J. Exp. Zool. 52, 293-313, 1929.  
 ibTao, Amer. J. Hyg. 7, 735-761, 1927.

**Flies—On Cattle**

- iBishopp, Dairy Farm. 24; 13, 6-7, 1926.  
 Bishopp, Farm & Ranch 45; 18, 2, 1926.  
 Butler, Prog. Farm. 42, 684, 1927.  
 Cary, South. Rur. 36, 6, 9, 1929.  
 iChristie, Ind. R. 28, 24, 1926.  
 Cory, Md. B. 298, 195-196, 1928.  
 Hiatt, Fla. Grow. 34; 1, 8, 1926.  
 Morre, Penn. Farm. 100, 1371, 1929.  
 Sanborn, Okla. Ext. News 8; 2, 4, 1926.

**Flies—Paraffin bait**

- Cook, J. Agr. Res. 32, 347-358, 1926.  
 Cook, Nation's Health 8, 504, 1926.

**Flies—Repellents**

- iAicher, et al, J. Ec. Ent. 20, 593-602, 1927.  
 Brooks, Fla. Dept. Agr. Quar. B. 29; 3, 32-34, 1929.  
 Cleveland, J. Ec. Ent. 19, 529-536, 1926.  
 Twinn & Herman, Sci. Agr. 8, 441-445, 1928.

**Flies—Traps for**

- iAshburn, Nat. Wool. Grow. 18; 3, 33-34, 1928.  
 iBishopp, U.S.F.B. 743, rev. July '25, 14 p.  
 iBishopp, Dairy Farm. 24; 13, 6-7, 1926.  
 iCooper, Colo. Ext. Serv. 260-A, 1926.  
 Darrow, Tex. Ext. Serv. Farm. News 11; 24, 2, 1926.  
 iMcMurdo, Military Surgeon 60, 423-424, 1927.

**Flight of insects, *see* Insects—Flight****Flocculent whitefly, *see* Aleurothrixus floccosus****Floods & Insects**

- iCoad, U.S.D.A. YB. 1927, 312-317, 1928.

**Florida flower thrips, *see* Frankliniella tritici bispinosus****Florida harvesting ant, *see* Pogonomyrmex badius****Florida Plant act 1927—Rules and regulations**

- Fla. St. Pl. Bd. Mo. B. 12, 77-107, 1927.

**\*Florida red scale, *see* Chrysomphalus aonidum****Florida tree snail, *see* Liguus sp.****\*Florida wax scale, *see* Ceroplastes floridensis**

Flour beetles, *see* *Tribolium* spp.

**Flower garden insects**

Britton, Conn. B. 305, 684-685, 1929.

iGibson, Can. Dept. Agr. n.s. B. 99, 1928, 56 p.

Leiber, Ind. Dept. Conserv. R. 6, 44-47, 1925; R. 7, 54-56, 1925; R. 9, 56-60, 1927; R. 10, 69-73, 1928.

Wallace, Ind. Ent. R.f. 1927, 36-40, 1928.

Weigel & Middleton, U. S. F. B. 1495, 1927, 54 p.

\*Flower thrips, *see* *Frankliniella tritici*

Flower webworm, *see* *Homeosoma electellum*

**Flowering plants insects**

Compton, Ill. Hort. Soc. Trans. 60, 320-328, 1927.

Compton, Trans. Ill. Hort. Soc. 61, 332-336, 1927.

**Flowers & insects**

Bulman, Contemporary R. 129, 232-236, F. 1926.

Lutz, Ann. N. Y. Acad. Sci. 29, 233-283, 1924.

Robertson, Ecol. 8, 113-132, 1927.

Robertson, Trans. Acad. Sci. St. Louis, v. 25; 8, 277-324, S. 1927.

bRobertson, Ecology 9, 505-526, 1928.

Robertson, Flowers and Insects, 1928, 221 p.

\*Fluff louse, *see* *Goniocotes hologaster*

Fly catcher, *see* *Hypocrabro stirpicolus*

*Folsomia fimetaria*

bFolsom, P. U. S. N. M. 72; 6, 6, 1927.

*Fontaria virginensis*

Blake, Ill. Biol. Mong. 10; 4, 82, 1926.

*Forcipomyia specularis*

iChandler, Animal Parasites ed. 3, 475, 1925.

*Forda olivacea*

iCutright, Ohio B. 387, 211, 1925.

iKnowlton, Fla. Ent. 13; 6, 1929.

Foreign grain beetle, *see* *Cathartus advena*

**Foreign pest introductions**

—Cal. Dept. Agr. Mo. B. 17, 571-572, 1928.

Foreign pest suppression and advisory board

McLaine, Can. Dept. Agr. Sp. Pub. 73, 45-49, 1927.

**Forest insects**

Beal, South. Lumberm. 129; 1671, 53, 1927.

iBoone, Amer. Lumberm. 2631, 58-59, 1925.

Boone, Timberm. 26; 7, 58, 1925.

Britton, Conn. B. 285, 173-176, 1927.

Britton, Conn. B. 294, 204-207, 1928.

Burke, Pac. Coast Ent. Soc. Proc. 2, 56-59, 1926.

iCaverhill, B. C. Dept. Lands—Forest Br. R. f. 1924, E16-E18, 1925.

Caverhill, B. C. Dept. Lands, For. Br. R. f. 1929, B 15.

iChamberlin, Amer. For. 33, 75-77, 1927.

iChamberlin, Amer. For. 33, 219-222, 1927.

Clapp, Nat. Prog. For. Res. 1926, 73-79.

Collingwood, Amer. Forests, 35, 649-652, 1929.

Detwiler, J. For. 26; 5, 618-623, 1928.

Detwiler, Insect and disease control, 1929, 28 p.

Dohanian, J. Ec. Ent. 20, 310-316, 1927.

Dunn, Can. Dept. Agr. Pam. 55 n.s. July 1925, 11 p.

Ebeling, Cal. Countrym. 15; 7, 9, '29.

Ewenden, Lumber World Rev. 49, 12, 43, 1925.

iEwenden, Timberman, 26; 9, 51, 1925.

Felt, N.Y.St. Mus. B. 274, 161-169, 1928.

iGraham, Amer. Lumberm. 2662, 61-62, 1926.

ibGraham, Principles of Forest Entomology, 1929, 339 p.

Keen, Cal. Dept. Nat. Resources B. 7, 95-96, 1928.

Kelsall & Spittall, Ont. Ent. Soc. R. 58, 69-70, 1928.

Motherwell, Can. Min. Agr. R. f. 1929, 119-121.

Munns & Coville, Internat. Cong. Ent. 4, Tr. 2, 333-341, 1929.

Peirson, Am. Forests 31, 374, 1925.

iPeirson, Me. For. Serv. B. 5, 1927, 130 p.

Pena, Hacienda 23, 154-156, 1928.

Ruhmann, Brit. Col. Dept. Agr. R. 21, N38-N42, 1927.

**Forest insects** *Cont'd*

Saalas, Internat. Cong. Ent. 4, Tr. 2, 646-656, 1929.

iSnyder, Nature Mag. 5, 311-314, 1925.

Swaine, Can. Dept. Agr. Pam. 97, 1928, 20 p.

Swaine, Pulp & Paper Mag. Can. 28; 23, 500-502, 1928.

Tragardh, Internat. Cong. Ent. 4, Tr. 2, 773-780, 1929.

**Forest insects—Canada**

Lunn, Can. Field-Nat. 39, 162, 1925.

iPattullo, B. C. Dept. Lands. For. Br. R. 1924, E16-E18.

Swaine, Canada Dept. Agr. Pam. 97, 1928, 20 p.

**Forest insects—Legislation**

Keen, Cal. Dept. Nat. Res. Div. For. B. 7, 95, 1928.

**Forest insects—Spraying**

Evenden, Timberman, 26; 9, 51, 1925.

**\*Forest tent caterpillar, see *Malacosoma disstria******Forficula auricularia* (European earwig)\***

A. B. S., Better Homes & Gardens, 4; 10, 38-39, 1926.

iAtwell, Ore. St. Hort. Soc. Bien. R. 19, 86-103, 1927.

iBuckell, B. C. Ent. Soc. Proc. 26, 20-23, 1929.

Buttle, West Frt., Flower & Garden, 8; 4, 9, 1926.

C. D. B., Better Fruit, 23; 4, 28, 1929.

Coyne, Wash. St. Hort. Assoc. Proc. 24, 185-188, 1928.

Downes, Proc. Ent. Soc. B. C. 25; 17, 1928.

Essig, Pan-Pac. Ent. 2, 45, 1925.

Felt, J. Ec. Ent. 20, 66-67, 1927.

Felt, N. Y. St. Mus. B. 274, 176, 1928.

Fernald, Applied Ent. ed. 2, 95-97, '26.

Fulton, Ent. News 38, 272-273, 1927.

iGibson & Twinn, Can. Dept. Agr. B. 112, 26-27, 1929.

Goe, Ent. News 36, 234-238, 1925.

Goe, Ent. News 39, 62, 1928.

Jacobson, Cal. Agr. B. 14, 150, 1926.

Jacobsen, Cal. Dept. Agr. Mo. B. 16, 655, 1928.

Lewis, Cal. Dept. Agr. Mo. B. 16, 469-471, 1927.

Mackie, Cal. Dept. Agr. Mo. B. 17, 682, 1928.

Morgan, Ind. Acad. Sci. Proc. 34, 347-348, 1925.

iMorgan, Proc. Ind. Acad. Sci. 36, 332-333, 1926.

ibMorgan, J. Morphology & Physiology 46, 241-272, 1928.

Motherwell, Canad. Min. Agr. R. f. 1929, 138.

Spencer, Ont. Ent. Soc. R. 59, 38, 1929.

Treherne, Agr. J. Brit. Col. 9, 159, 1924.

Uhrbans, Cal. Agr. B. 14, 176, 1926.

Wilson, Cal. Agr. Mo. B. 16, 468-469, 1927.

***Forficula auricularia*—Parasites**

Atwell, Ore. St. Hort. Soc. Bien. Rept. 19, 101-103, 1927.

Atwell, Oreg. St. Bd. Hort. Portland Insectaries R. 1927, 41 p.

Barringer, Amer. Florist, 67, 1997, 7, 1926.

ibEssig, Insects of Western No. Amer. 1926, 63-65.

Jardine, Oreg. Bien. R. 1924-26, 105, '26.

Jardine, Oreg. Bien. R. f. 1926-28, 102-103, 1928.

***Forficula* sp.—British Columbia**

Spencer, Pac. Coast Ent. Soc. Proc. 2, 65-66, 1926.

**\*Forked-tailed bush katydid, see *Scudderia furcata******Formica cinerea***

Ryan, Cal. Agr. Mo. B. 18, 366, 1929.

***Formica dakotensis***

Abbott, Ent. News 37, 210-211, 1926.

ibAbbott, Ann. Ent. Soc. Amer. 20, 117-122, 1927.

***Formica (Coptoformica) exsecta***

nWheeler, Amer. Mus. Nov. 361, 10-11, 1929.

***Formica exsectoides***

iAndrews, Nat. Mag. 6, 217-220, 1925.

Andrews, Amer. Nat. 62: 678, 63-75, 1928.

biAndrews, Ann. Ent. Soc. Amer. 22; 369-391, 1929.

Andrews, Amer. Nat. 63, 540-552, 1929.

- Lutz, Nat. Hist. 25, 127, 1925.  
 Manter, J. Ec. Ent. 18, 348-351, 1925.  
 iPeirson, Me. For. Serv. B. 5, 97-98, 1927.
- Formica fusca**  
 Wheeler, Psyche, 34, 40-41, 1927.  
 ———Amer. Med. Assoc. J. 86, 1467, 1926.
- Formica haemorrhoidalis**  
 Keen, Cal. Dept. Nat. Resources B. 7, 97, 1928.
- Formica (Proformica) lefevrei**  
 nWheeler, Amer. Mus. Nov. 361, 11, 1929.
- Formica nitidiventris**  
 iCreighton, Psyche 35, 53, 1928.
- Formica pilicornis**  
 Pijoan, J. Ent. & Zool. 20, 41-42, 1928.
- Formica rufa (Fallow ant)**  
 Buckell, Proc. Ent. Soc. B. C. 24, 32, 1927.  
 Pijoan, J. Ent. & Zool. 20, 41-42, 1928.
- Formica sanguinea**  
 Buckell, Proc. Ent. Soc. B. C. 24, 32, 1927.  
 Cole, Can. Field Nat. 41, 199-201, 1928.  
 bSmith, N. Y. Ent. Soc. Jour. 36, 323-327, 1928.
- Formica subpolita**  
 Buckell, Proc. Ent. Soc. B. C. 24, 33, 1927.
- Formica ulkei**  
 ilbHolmquist, Ecology 9, 70-87, 1928.  
 bPark, Ent. News 40, 325-326, 1929.  
 biPark, Psyche, 36, 195-215, 1929.
- Formicidae**  
 ibWheeler, Biol. B. 49, 150-181, 1925.
- Formicomus yosemitae**  
 nMoulton, Pan-Pac. Ent. 5, 135-136, 1929.
- Fornax rugicollis**  
 nFall, Brklyn. Ent. Soc. B. 20, 181, 1925.
- Fossil insects, see Insects—Fossil**
- Fotella notalis**  
 Barnes & Benjamin, Brklyn. Ent. Soc. B. 20, 194, 1925.
- Foulbrood**  
 Boggs, Iowa St. Hort. Soc. Tr. 59, 350, 1925.  
 Burnside, Md. Agr. Soc. R. 13, 318-324, 1928.  
 Cale, Am. Bee. J. 65: 563, D. 1925.
- Carr. Am. Bee J. 65, 119, 1925.  
 Carr. Am. Bee J. 67: 189, Ap. 1927.  
 Dadant, Am. Bee J. 66: 429-431, S. 1926.  
 Dadant, Am. Bee J. 66: 494, O. 1926.  
 Dadant, Am. Bee J. 67: 515, O. 1927.  
 Finlay, Agr. J. Br. C. 9, 229-230, 1924.  
 Fracker, J. Ec. Ent. 18, 372, 1925.  
 ilFracker, Am. Bee J. 67: 295-296, Je. 1927.  
 Garman, J. Ec. Ent. 18, 305, 1925.  
 Gowdey, Jamaica Sci. & Agr. Dept. Ann. R. f. 1926, 4, 1927.  
 Harrison, Am. Bee J. 67: 580, N. 1927.  
 Hutzelman, Gleanings. 54: 716-717, N. 1926.  
 Keltz, Am. Bee J. 66: 546, N. 1925.  
 Kindig, Am. Bee J. 64: 555, D. 1924.  
 King, Gleanings, 53: 438-440, Jl. 1925.  
 Krebs, Am. Bee J. 67: 247, My. 1927.  
 Latham, Am. Bee J. 67: 378, Jl. 1927.  
 ilLink, Am. Bee J. 65: 326-327, Jl. 1925.  
 Lockett & Gowdey, Jamaica Ag. Soc. J. 31: 46-47, F. 1927.  
 Merrill, Am. Bee J. 67: 414, Ag. 1927.  
 Millen, J. Ec. Ent. 21, 371-374, 1928.  
 Ootmar, Am. Bee J. 66: 68-69, F. 1926.  
 Pettit, Gleanings, 54: 144-147, Mr. 1926.  
 Phillips, VIIth Internat. Cong. Apic. 1925, 409-16.  
 Rogers, Jamaica Ag. Soc. J. 31: 13-16, Ja. 1927.  
 ilRoot, Gleanings, 53: 644-645, O. 1925.  
 Slocum, Wash. Ext. B. 128, 1925, 10 p.  
 Steffen, Am. Bee J. 66, 552, N. 1926.  
 Stubbs, Jamaica Ag. Soc. J. 30: 467-469, N. 1926.  
 Urbahns, Cal. Agr. Mo. B. 17, 526, 1928.  
 Vansell, J. Ec. Ent. 18, 576, 1925.  
 ilVansell, Am. Bee J. 66, 234, My. 1926.  
 ilVansell, Cal. C. 307: 1-12, 1926.  
 Whitcomb, N.H. Ext. P. B. 137, '24, 1 p.  
 Worthington, Iowa St. Hort. Soc. Tr. 59, 361, 1925.  
 Youngblood, Tex. R. 38, 23-24, 1925.
- Foulbrood—American**  
 Bliss, Iowa Ext. B. B. 138, 2-8, 1926.  
 Britton, Conn. B. 294, 225, 1928.  
 Britton, Conn. B. 305, 704-705, 1929.  
 Gilbert, Wyo. B. 159, 119-131, 1928.  
 Gilbert, Wyo. B. 166, 151-171, 1929.

**Foulbrood—American *Cont'd***

Jones, Sci. Agr. 5: 6, 190-195, 1925.

Millen, Ont. Dept. Agr. B. 317, 7-14, 1926.

iPaddock, Iowa Ext. B. 154, 3-11, 1929.

Root, J. Ec. Ent. 18, 385, 1925.

Rude, Texas C. 38, 1925, 11 p.

Slocum, Wash. Ext. B. 147, 1927, 7 p.

Sturtvant, U. S. D. A., Dept. C. 234, 1926, 26 p.

Todd, Cal. Agr. Mo. B. 17, 510-511, 1928.

iVansell, Cal. C. 307, 1926, 12 p.

Vansell, J. Ec. Ent. 19, 158-160, 1926.

**Foulbrood—European**

Bliss, Iowa Ext. B. 138, 8-10, 1926

Britton, Conn. B. 294, 225, 1928.

Britton, Conn. B. 305, 704-705, 1929.

Lochhead, Science 67, 159-160, 1928.

Lochhead, Internat. Cong. Ent. 4, Tr. 2, 1005-1009, 1929.

Millen, Ont. Dept. Agr. B. 317, 7, 1926.

iPaddock, Iowa Ext. B. 154, 11-15, 1929.

Phillips, Iowa, St. Hort. Soc. Tr. 59, 338, 1925.

iSlocum, Wash. Ext. B. 128, 1925, 10 p.

Slocum, Wash. Ext. B. 144, 1927, 6 p.

Sturtevant, J. Ec. Ent. 18, 400, 1925.

Whitcomb, N.H. Ext. P.B. 138, 1924, 1 p.

**Four-banded leaf roller, *see* *Eulia quad-rifasciana***

**Four-eyed spruce bark beetle, *see* *Polypographus rufipennis***

**Four-lined ash borer, *see* *Eburia quadri-geminata***

**\*Four-lined plant bug, *see* *Poecilocapsus lineatus***

**\*Four-spotted tree cricket, *see* *Oecanthus nigricornis*, *quadripunctatus***

**\*Fowl tick, *see* *Argas miniatus***

**Foxglove aphid, *see* *Myzus pseudosolani***

***Frankliniella achæta***

niHood, Brklyn. Ent. Soc. B. 20, 81, 1925.

***Frankliniella aeschlyi***

nGirault, Ins. Insc. Mens. 14, 188, 1927.

***Frankliniella ameliae***

niHood, Brklyn. Ent. Soc. B. 20, 77, 1925.

***Frankliniella australis***

nMorgan, Can. Ent. 57, 139, 1925.

***Frankliniella bagnalliana***

niHood, Brklyn. Ent. Soc. B. 20, 79, 1925.

***Frankliniella bispinosa***

iHume, Cultivation of Citrus Fruits, 1926, 457-458.

Watson, Fla. R. f. 1924, 76R.

Watson, Fla. Grower 32; 3, 36, 1925.

***Frankliniella canadensis***

nMorgan, Can. Ent. 57, 143-144, 1925.

***Frankliniella cephalica* (Avocado blossom thrips)**

Watson, Fla. Ent. 9, 54-55, 1926.

***Frankliniella claripennis***

nMorgan, Can. Ent. 57, 142-143, 1925.

***Frankliniella cubensis*, *difficilis*, *exigua***

niHood, Brklyn. Ent. Soc. B. 20, 73, 74, 78, 1925.

***Frankliniella fusca***

Barre, S. C. R. 42, 60, 1929.

***Frankliniella fuscicauda***

nHood, Proc. Biol. Soc. Wash. 40, 197, 1927.

***Frankliniella genuina***

niHood, Brklyn. Ent. Soc. B. 20, 79, 1925.

***Frankliniella gilmorei***

nMorgan, Can. Ent. 57, 140-141, 1925.

***Frankliniella occidentalis* (Alfalfa thrips)**

Carter & Ruggles, Minn. Ext. Sp. B. 99, 5-7, 1925.

iChilds, J. Ec. Ent. 20, 805-808, 1927.

Venables, Proc. Ent. Soc. B. C. 22, 12, 1925.

***Frankliniella panamensis***

niHood, Brklyn. Ent. Soc. B. 20, 76, 1925.

***Frankliniella parvula***

niHood, Psyche 32, 49, 1925.

***Frankliniella* sp.**

Hansen, Sci. 69: 1787, 356, 1929.

***Frankliniella* spp.—Key**

Morgan, Can. Ent. 57, 136-147, 1925.

***Frankliniella trehernei***

nMorgan, Can. Ent. 57, 144-146, 1925.

***Frankliniella tritici* (Flower thrips\* Strawberry thrips)**

Essig, Insects of Western No. Amer. 1926, 187-188.

Newell, Fla. R. f. 1927-28, 48R.

Porter, Chandler & Szame, Ill. Nat. Hist. Surv. B. 17, 270, 1928.

School & Stephens, Texas Dept. Agr. B. 84, 21-22, 1925.

- Seamans, Ont. Ent. Soc. R. 59, 30, 1929.  
 Smith, La. Ext. C. 133; 33, 1928.  
 iWatson, Fla. B. 183, 382-387, 1926.  
 Watson, Fla. R. f. 1926, 44R-45R, 1926.  
 Watson, Citrograph 10; 2, 27, 1929.
- Frankliniella tritici bispinosa (Florida flower thrips)**  
 lBrooks, et al, Fla. B. 204, 515-517, 1929.  
 iHinds, La. Ext. C. 122, 20-21, 1929.  
 Watson, Fla. R. 1927, 46R-47R.  
 Watson, Fla. R. f. 1928, 48R.  
 Watson, Fla. Dept. Agr. Quar. B. 39: 3; 138-140, 1929.
- Frankliniella unicolor**  
 nMorgan, Can. Ent. 57, 141-142, 1925.
- Frankliniella zeteki**  
 niHood, Brklyn. Ent. Soc. B. 20, 75, 1925.
- Frenchia semiocculata**  
 iMorrison & Morrison, P. U. S. N. M. 71: 17, 22-23, 1927.
- Fringe wing apple bud moth, see Holcoca maligemmela**
- Frit fly, see Oscinis frit**
- Froghopper—In Trinidad sugar cane**  
 iMorse, Facts about Sugar 22, 604-606, 1927.
- Frontina archippiva**  
 iHawley, Utah C. 54, 12, 1925.
- Frontina bigeminata**  
 nCurran, Amer. Mus. Nov. 260, 9, 1927.
- Frontina malacosomae**  
 nCurran, Can. Ent. 57, 155-156, 1925.
- Frontinogaedia, n. gen.**  
 Townsend, Ins. Insc. Mens. 14, 37, 1926.
- Fruit flies**  
 Howard, U.S.D.A. Ent. R. f. 1926, 14.  
 iHungerford, Kans. St. Bd. Agr. Bien. R. 24, 113-114, 1924.  
 bKisliuk, J. Ec. Ent. 22, 478-482, 1929.  
 iQuayle, Cal. C. 315, 1929, 18 p.  
 —USDA, PQCA, Letter of Inform. 41, 157, 1929 (S.R.A. 97 Sup).
- Fruit insects**  
 Anderson, Ill. Hort. Soc. Tr. 60, 120-127, 1925.  
 Bird, Can. Ent. 59, 124-128, 1927.  
 Brittain, Nova Scotia Sec. Agr. R. f. 1925, 53.  
 Britton, Mass. Fr. Grow. Assoc. R. 31, 118-132, 1925.
- Britton, Conn. B. 294, 198-201, 1928.  
 Britton, Conn. B. 305, 674-677, 1929.  
 Britton & Zappe, Conn. B. 292, 124-125, 1927.  
 Call, Kans. R. f. 1924-26, 76-77.  
 Cardinell, Mich. Hort. Soc. R. f. 1922: 22-26, 1923.  
 iChandler, North American Orchards, 1928, 516 p.  
 Cory, Peninsula Hort. Soc. Tr. f. 1926, 34-38, 1926.  
 Cory, Peninsula Hort. Soc. Tr. 41, 80-87, 1928.  
 Davis, Ind. Acad. Sci. Proc. 35, 311, 1926.  
 Davis, Ind. Acad. Sci. Proc. 43, 453-455, 1928.  
 Doran, Mass. Fr. Grow. Assoc. R. 34, 65-68, 1928.  
 Dunn, Gard. Chronicle 29, 65, 70, 1925.  
 Evans, B. C. Dept. Agr. C. 68, 1927, 11 p.  
 iFlint, Am. Fruit Grower, 46: 9, 3, 20, 1926.  
 Flint, Ill. St. Hort. Soc. R. f. 1925: 239-252, 1926.  
 bFryer, Internat. Cong. Ent. 4, Tr. 2, 229-236, 1929.  
 Gibson, Canad. Hort. Fr. & Truck ed. 41, 28, 1928.  
 Hedrick, N. Y. (Geneva) R. 48, 60, 1929.  
 iHeppner, Amer. Fruit Grower Mag. 45; 5, 9, 1925.  
 iHerrick, Rur. N. Y. 85: 421, 1926.  
 Herrick, N. Y. St. Hort. Soc. Proc. 74, 4-16, 1929.  
 Hutchings, Ont. Ent. Soc. R. 58, 8, 1929.  
 Kelsall, Fr. Grow. Assoc. Nova Scotia R. 61, 88, 1926.  
 iMcMunn, Ill. St. Hort. Soc. R. f. 1926; 127-140, 1927.  
 iMelander, Am. Fruit Grower, 46: 7, F. 1926.  
 iMetcalfe & Flint, Dest. & usef. ins. 520-646, 1928.  
 iMorse, Hoosier Hort. 7, 163-170, 1925.  
 Mote, Better Fruit, 20: 8, 8, 1926.  
 Mote, Oreg. St. Hort. Soc. R. 18, 54-60, 1926.  
 Newman, Pac. Rur. Press, 110: 437, O. 24, 1925.



**Fruit insects** *Cont'd*

- O'Dell, Ariz. Com. Agr. Hort. R. 15-16, 60-61, 1925.  
 Parks, Farm & Dairy, 15: 24; 1, 6, '29.  
 Pickett & Martin, Kans. C. 145, 10-17, '29.  
 Pickett & Williams, Kans. C. 125, 4, 1926.  
 Porter, Ind. Hort. Soc. Tr. 64, 53-56, 1925.  
 iQuaintance & Baker, Farmers' B. 1128 (rev): 1926, 1-34.  
 Quaintance, Cal. Fruit News 80; 2151, 11, 1929.  
 Rawl, S. C. Clemson Col. Wkly. News Notes 14; 43, 1926.  
 Roberston, B. C., Dept. Agr. R. 20, R9-26, 1926.  
 Robertson, B. C., Dept. Agr. R. 23, Q19-Q29, 1929.  
 Ross, Farm. Adv. 60, 417, Mar. 19, 1925.  
 Ruggles, Minn. Hort. 53: 213-217, S. 1925.  
 Ruggles & Peterson, Minn. Hort. 55: 118, Ap. 1927.  
 Tesche, Pac. Rur. Press. 114: 436, O. 22, 1927.  
 Van Meter, Flow. Grow. 14: 427, S. 1927.  
 Zappe, Conn. B. 305, 728-729, 1929.
- Fruit insects—Infestation index**  
 iFlanders, J. Ec. Ent. 20, 544, 1927.
- Fruit insects—Quarantine**  
 Gore, USDA, FHB, SRA, 82, 3-5, '25.
- Fruit tree leaf beetle, see** *Syneta albida*
- \*Fruit tree leaf roller, see** *Cacoecia argyrospila*
- Fucellia albeola**  
 iiHuckett, Brklyn, Ent. Soc. B. 22, 163-165, 1927.
- Fulgoridae**  
 iBaker, Philippine J. Sci. 28, 343-362, 1925.  
 Curran, Nat. Hist. 29, 616-617, 1929.  
 iDozier, Miss. Tech. B. 14, 1926, 152 p.
- Fulgoridae—Cuban**  
 bMyers, Harvard Biol. Lab.—Studies on Cuban Insects 1, 13-28, 1928.
- Fulgurodes lilianae**  
 iiSchaus, Wash. Ent. Soc. Proc. 31, 50, 1929.
- \*Fuller's rose beetle, see** *Pantomorus fulleri*

**Fumigants—Benzine and naphthalene**

- Klein, J. Am. Soc. Agron. 17, 634-640, 1925.  
 —Facts about Sugar 20, 1049, 1925.
- Fumigants—Chlorides**  
 bRoark & Cotton, J. Ec. Ent. 21, 135-142, 1928.
- Fumigants—Comparative tests**  
 Hoyt, Indus. & Engin. Chem. 20, 835-837, 1928.
- Fumigants—Cyanogen products**  
 Akin & Sherrard, U.S. Pub. Health R. 43, 2647-2670, 1928.
- Fumigants—Ethyl acetate—carbon tetrachloride**  
 Back & Cotton, J. Ec. Ent. 18, 302-308, 1925.
- Fumigants—Ethylene dichloride—carbon tetrachloride**  
 Cotton & Roark, J. Ec. Ent. 20, 636-639, 1927.
- Fumigants—Ethylene oxide**  
 —Cal. Cult. 72, 81, 1929.
- Fumigants—Naphthalene**  
 Balch, Amer. Flor. 71; 48, 8, 1929.
- Fumigants—Potassium xanthate**  
 VanZwaluwenburg, Assoc. Hawaiian Sugar Tech. R. 5, 23, 1926.  
 —Cal. R. 1924-25, 52, 1926.
- Fumigants—Sodium fluoride**  
 Fulton, Kans. Union Farm. 20; 50, 3, 1928.
- Fumigants—Vapor pressure**  
 Nelson & Young, Ind. & Engin. Chem. 20, 1380-1384, '28; 21, 321-322, '29.  
 Roark & Nelson, J. Ec. Ent. 22, 381-387, 1929.
- Fumigating box**  
 Linz, Florists Exch. 62, 1169, 1926.
- Fumigating—Fumoth fumigator**  
 —Nat'l Miller, 34; 9, 48, 1929.
- Fumigating plant—Ariz.**  
 —Cotton & Cotton Oil News 30; 48, 15, 1929.
- Fumigating plant—B. C.**  
 Robertson, B. C. Dept. Agr. R. 20, P. 29, 1926.
- Fumigation**  
 iBottel, Citrus Leaves 7: 1, 1-4, 1927.  
 Kirkpatrick, Cal. Citrog. 11: 120, '26.

- Kuhn, Chemical Warfare, 12; 10, 3-8, 1926.  
 Mackie, Cal. Dept. Agr. Sp. Pub. 85, 82-86, 1928.  
 McCubbin, Nat'l Nurserym. 34, 304, 1926.  
 iMason, Spraying, 231-240, 1928.  
 Trimble, Pa. Dept. Agr. B. 8; 2, 13-14, '25.  
 Wilcomb, Cal. Cit. 13, 396, 418-419, 1928.  
 Woglum, Cal. Cit. 11; 1, 27, 1925.  
 i——Cal. Cit. 11, 308, 344-346, 1926.  
**Fumigation, *see also* Insecticides—Calcium cyanide, Hydrocyanic acid gas, etc.**  
**Fumigation—Adapting to industrial needs**  
 Saftro, J. Ec. Ent. 20, 261-266, 1927.  
**Fumigation—Bakeries**  
 Gardner, Baker's Review, 59; 3, 75, 1929.  
 iPirrie, Modern Bakery Production, 1928, 271-273.  
**Fumigation—Bee hives**  
 bHutson, Am. Bee J. 66, 273, 1926.  
**Fumigation—Citrus**  
 Bodkin, Citrus Industry 9; 4, 10-11, 30, 1928.  
 Bottel, Cal. Dept. Agr. Mo. B. 17, 287, 1928.  
 Bowman, Citrus Industry 8; 9, 8, 1927.  
 Bromley, Fla. Grow. 36; 1, 17-18, 1928.  
 iEvans, Citrus Industry 7; 4, 8-9, 1926.  
 iKelley, Fla. Grower 33; 12, 9, 1926.  
 iKirkpatrick, Cal. Citrog. 11, 120, 1926.  
 Landon, Cal. Citrog. 11, 352, 1926.  
 Moore, Citrus Indus. 6; 11, 8, 1925.  
 Moore, Citrus Indus. 8, 4, 16, 21, 1927.  
 iQuayle, Calif. Citrog. 11, 296, 1926.  
 Quayle, Citrus Leaves 6; 6, 5-6, 1926.  
 Quayle, Internat. Cong. Ent. 4, Tr. 2, 155-161, 1929.  
 iSaftro, Fla. Grower 34; 935, 9, 1926.  
 iWalker, Fla. Grower 32; 25, 5, 1925.  
 Watson, Citrus Indus. 7; 2, 15, 1926.  
 Watson, Citrus Indus. 7; 9, 7, 1926.  
 iWatson, Fla. Gr. 33; 9, 9, 22, 1926.  
 iWatson, Fla. Gr. 34; 9, 10, 1926.  
 Webber, Cal. Agr. Mo. B. 18, 101, 1929.  
 Woglum, Cal. Assoc. Nurserym. Tr. & Proc. 18, 44-47, 1928.  
 ——Cal. Citrograph, 12, 322-323, 1927.  
 ——Cal. Cult. 69, 128, 1927.  
**Fumigation—Clothes moths**  
 Hicks, Rur. N. Y. 85, 855, 1926.  
 ——Furniture Mfr. 38; 3, 90, 1929.  
**Fumigation—Corn**  
 Cooper, Fla. Farm. 31; 18, 6, 1929.  
**Fumigation—Developments**  
 Quayle, Citrus Leaves 5; 8, 5, 1925.  
**Fumigation—Dormant nursery stock**  
 Cory, J. Ec. Ent. 19, 378-380, 1926.  
**Fumigation—Dried figs**  
 ——Cal. Fruit News 76; 2046, 9, '27.  
**Fumigation experiments**  
 iEddy & Geddings, J. Ec. Ent. 22, 367-378, 1929.  
**Fumigation of field boxes**  
 ——Cal. Citrog. 15, 340, 1930.  
**Fumigation—Flies**  
 iEddy, S. C. B. 237, 1927, 14 p.  
 iEddy, Dairyman. News, 13; 29, 14, 1929.  
**Fumigation—Grain**  
 Mackie, Cal. Dept. Agr. Sp. Pub. 85, 22-25, 1928.  
 ——Iowa Homestead, 74, 295, 1929.  
**Fumigation—Grapes**  
 Lawson, Cal. Grape Grow. 7; 8, 7, '26.  
**Fumigation—Greenhouse**  
 Balch, Amer. Flor. 71; 2148, 8, 1929.  
 Chupp, Cornell Ext. B. 171, 22, 1928.  
 iFilingier, Ohio Bi-Mo. B. 12, 181-184, 1927.  
 iGuyton, Pa. Dept. Agr. B. 413, 1925, 8 p.  
 Hartzell, J. Ec. Ent. 19, 780-786, 1926.  
 Hartzell, Boyce-Thompson Inst. Pl. Res. Prof. Paper 3, 13-19, 1926.  
 Hartzell, Gard. & Home Bldg. 46, 469, 1928.  
 iHartzell, Flor. Exch. 71; 8, 11, 36, '29.  
 Haseman, Mo. B. 244, 36, 1926.  
 ibHerrick & Griswold, N.Y. (Cornell) B. 474, 1929, 20 p.  
 Lieber, Ind. Dept. Conserv. R. 7, 54, 1925.  
 Ruhmann, British Columbia Dept. Agr. R. 21, N42, 1927.  
 W. C. W. Rur. N.Y. 84, 407, 1925.  
 Weigel, J. Ec. Ent. 18, 137-141, 1925.  
 Weigel, U.S.D.A. Dept. C. 380, 2-6, 1926.  
**Fumigation—House**  
 Smith, J. Ec. Ent. 19, 65-77, 1926.

**Fumigation—Household insects**

Gibson & Twinn, Can. Dept. Agr. B.  
112, 4-7, 1929.

Maheux, Quebec, Soc. Protec. Pl. R.  
18, 109, 1926.

iStrand, Minn. Ext. Sp. B. 102, 10-17,  
1926.

**Fumigation—Mills**

iStrand, Minn. Ext. Sp.B.102,4-10,1926.

i—Amer. Miller 55, 1081, 1927.

**Fumigation—Narcissus bulbs**

iSmith, Cal. Dept. Agr. Mo. B. 17, 614-  
619, 1928.

iFlorists' Rev. 60: 1540, 32, 1927.

**Fumigation—Oranges**

Woglum, Cal. Citrog. 12, 365, 1929.

**Fumigation—Orchard**

Brock, Cal. Agr. Mo. B. 18, 570-572, '29.

**Fumigation packing sheds and apple boxes**

Miller, Better Fruit, 23; 12, 14, 15, 24,  
1929.

**Fumigation—Peach**

List & Yetter, Colo. Ent. C. 47, 18, 1925.

**Fumigation—Potatoes**

Mackie, Calif. Dept. Agr. Mo. B. 18,  
225-226, 1929.

**Fumigation—Research work**

Camp, Cit. Ind. 9: 8, 3-6, 1928.

iCamp, Fla. St. Pl. Bd. Mo. B. 12, 217-  
231, 1928.

**Fumigation room for farm crop laboratory supplies**

Keim, J. Am. Soc. Agron. 17, 634-640,  
1925.

**Fumigation—Ship**

Akin & Sherrard, U.S. Pub. Health R. 42:  
861-867, 1927; 43, 1016-1022, 1928.

**Fumigation—Ships—Fleas**

bWilliams, U. S. Pub. Health R. 44: 9,  
451, 1929.

**Fumigation—Steam & carbon bisulfide**

iRiley, Ind. B. 331, 8-11, 1929.

**Fumigation—Stored grain**

Back & Cotton, USFB. 1260; rev. Dec.  
1925, 47.

**Fumigation—Stored products**

Back & Cotton, USFB 1483, 1926. 30 p.  
Cotton & Roark, Industrial & Eng.

Chem. 20; 4, 380-382, 1928.

Curran, Sci. Agr. 8, 332-335, 1928.

Swanson & Working, Amer. Miller 54,  
824, 1926.

—Ind. & Eng. Chem. 21: 79, Ja. 1929.

—J. Ec. Ent. 20, 759, 1927.

**Fumigation—Sulfur fumes**

Guyton, Pa. Dept. Agr. Gen. B. 432,  
18-19, 1927.

**Fumigation—Tents**

ibQuayle, Hilgardia, 3, 225, 1928.

**Fumigation—Vacuum**

Call, Citrus Leaves, 8; 7, 18-19, 1928.

Camp, Fla. St. Hort. Soc. Proc. 41,  
129-136, 1928.

Mackie, Cal. Dept. Agr. Sp. Pub. 72, 53,  
1927.

Mackie, Cal. Fruit News, 78; 2095, 9,  
1928.

Mackie & Call, Cal. Dept. Agr. Mo. B.  
18, 218-220, 1929.

—Cal. Agr. Mo. B. 17, 437, 1928.

—Cal. Fruit News 78; 2095, 9, 1928.

**Fumigation—Vapor pressure**

Nelson, Industrial Engin. Chem. 20,  
1380-1381, 1928.

**Fumigation vs. oil spraying for citrus**

Moore, Citrus Industry 8: 2, 16, 1927.

**Fumigation—Wheat**

Swanson, Amer. Miller 54, 824, 1926.

**Fumigation and spraying**

Hampton, Citrus Industry 7: 2, 15, 1926.

Wilcomb, Cal. Cit. 13; 396, 418-419,  
1928.

**Fumigation & spraying—Aspidiotus aurantii**

iQuayle, Cal. Citrog. 12, 349-360, 1929.

Watson & Hampton, Citrus Industry 7:  
2, 15, 1926.

**Fungicides—Copper, supplements for**

bHolland, et al, Mass. B. 252, 94-112,  
1929.

**Fungicides—Poisoned sulphur**

Brittain, Fruit Gr. Assoc. Nova Scotia  
R. 61, 65-67, 1925.

**Fungicides and insecticides**

Brooks, Fla. Dept. Agr. Quar. B. 39:  
3, 37-46, 1929.

Caesar et al, Farm. Advoc. 60, 444, 1925.

Soule, Me. St. Bd. Agr. Rept. f. 1925-6-  
7, 23-24.

**Fungous beetles in Florida**

West, J. N. Y. Ent. Soc. 35, 63, 1927.

**Fungous diseases of insects**

- Berger, Fla. B. 183, 356-360, 1927.  
**Fungous diseases—Acrostalagmus aphidum**  
 bNolla, J. Dept. Agr. Porto Rico 13, 59-72, 1929.  
**Fungous diseases—Aegerita webberi**  
 Hume, Cultivation of citrus fruits, 1926, 543.  
**Fungous diseases—Aschersonia aleyrodis**  
 Berger, Fla. B. 183, 347, 1927.  
 Hume, Cultivation of citrus fruits, 1926, 541.  
 Watson, Fla. Agr. News Service 12: 3, 1, 1926.  
 — Fla. St. Pl. Bd. B. 12, 275, 1928.  
**Fungous diseases—Aschersonia goldiana**  
 Berger, Fla. B. 183, 348, 1927.  
**Fungous diseases—Aschersonia sp.**  
 — Fla. Grower 32, 14, 1925.  
**Fungous diseases—Aspergillus flavus**  
 bEarle, Facts About Sugar 22, 1010-1011, 1927.  
**Fungous diseases—Cladosporium**  
 Gilbert & Kuntz, Fla. St. Pl. Bd. Quar. B. 10, 5, 1926.  
**Fungous diseases—Empusa fresenii**  
 Berger, Fla. R. 1927, 65 R.  
 Miller, Fla. B. 203, 463-464, 1929.  
**Fungous diseases—Empusa sp.**  
 Gilbert & Kuntz, Fla. St. Pl. Bd. Quar. B. 10, 2, 1926.  
**Fungous diseases—Empusa sphaerosoma**  
 Sawyer, Am. J. Bot. 16: 2, 91-95, 1929.  
**Fungous diseases—Entomophthora aphidis**  
 ibFluke, Wis. Res. B. 93, 5-6, 1929.  
**Fungous diseases—Entomophthora fumosa**  
 Hume, Cultivation of Citrus Fruits, 1926, 543.  
**Fungous diseases—Entomophthora sphaerosperma**  
 Dustan, Ont. Ent. Soc. R. 55, 63-67, 1925.  
**Fungous diseases—Entomophthoraceae**  
 bSawyer, Amer. J. Bot. 16: 2; 87-121, '29.  
**Fungous diseases—Isaria (Cordyceps) barberi**  
 Van Dine, Trop. Plant Res. Found. B. 2, 6, 1926.

**Fungous diseases—Laboulbenia formicarium**

- bSmith, Brklyn. Ent. Soc. 23: 104-106, 1928.  
**Fungous diseases—Massospora cicadina**  
 Davis, N. J. Dept. Agr. Bur. Sta. C. 97, 19, 1926.  
**Fungous diseases—Massospora cicadina**  
 iGoldstein, Am. J. Bot. 16, 394-401, 1929.  
**Fungous diseases—Metarrhizium anisopliae**  
 biGlaser, Ann. Ent. Amer. 19, 180-192, '26.  
**Fungous diseases—Myriangium duriaci**  
 Hume, Cultivation of Citrus Fruits, 1926, 540.  
**Fungous diseases—Ophionectria coccicola**  
 Hume, Cultivation of Citrus Fruits, 1926, 539.  
**Fungous diseases—Sphaerostilbe coccosphila**  
 Hume, Cultivation of Citrus Fruits, 1926, 538.  
**Fungous diseases—Spicaria canadensis**  
 iVuillemin, Can. Ent. 57, 97, 1925.  
**Fungous diseases—Staphylococcus muscae**  
 bGlaser, Ann. Ent. Soc. Amer. 19, 196-198, 1926.  
**Fungous parasites of grasses**  
 Davis, Mass. B. 247, 312, 1929.  
**Furniture insects**  
 Back & Cotton, Furnit. Warehouse 6: 5, 1926. 11 p.  
 Davis, Ind. C. 150, 5-6, 1928.  
**Fustiger knausi**  
 Knaus, Ent. News 39, 6, 1928.  
**Gahaniella, n. gen., californica, saissetiae**  
 Timberlake, PUSNM 69; 3, 23-28, 1926.  
**Galeodes araneoides**  
 iReed, Nat. Mag. 13, 246, 1929.  
**Galerucella cavicollis (Cherry leaf beetle)\***  
 Doak, Ind. Acad. Sci. Proc. 43, 442, '28.  
 Mutchler & Weiss, N. J. Dept. Agr. Bur. Stat. & Inspec. C. 98, 3-4, 1926.  
 Peirson, Me. For. Serv. B. 5, 49, 1927.  
 Pettit, Mich. C. B. 68, 1925, 2 p.  
**Galerucella decora (Lesser willow leaf beetle)**  
 ideGryse, Can. Dept. Agr. Ent. Br. Pam. 47, n. s. rev. ed. 20-21, 1925.

*Galerucella decora* *Cont'd*

- Mutchler & Weiss, N. J. Dept. Agr. Bur. Stat. & Inspec. C. 98, 4, 1926.  
 Peirson, Me. For. Serv. B. 5, 123, 1927.
- Galerucella kalmiae* (Laurel leaf beetle)  
 Mutchler & Weiss, N. J. Dept. Agr. Bur. Stat. & Inspec. C. 98, 4-5, 1926.
- Galerucella luteola* (Elm leaf beetle)\*  
 Bailey, Comm. Agr. Vt. Bien. R. 13, 49-50, 1926.  
 Britton, Tree Talk 8: 4, 32, 1928.  
 Britton & Zappe, Conn. B. 292, 144-145, 1927.  
 Collingwood, Amer. Forests, 35, 649-652, 1929.  
 Felt, N. Y. St. Mus. B. 260, 47, 1925.  
 Felt, N. Y. St. Mus. B. 267, 40, 1926.  
 Felt, N. Y. St. Mus. B. 274, 157-158, '28.  
 Jacobsen, Calif. Dept. Agr. Mo. B. 15, 131, 1926.  
 iMackie, Cal. Agr. Mo. B. 16, 294-301, 1927; Mo. B. 17, 681, 1928.  
 iMutchler & Weiss, N. J. Dept. Agr. Bur. Stat. & Inspec. C. 98, 5-7, 1926.  
 Peirson, Me. For. Serv. B. 5, 54-55, '27.  
 Pettit, Mich. Bd. Agr. R. 64, 217, 1926.  
 Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 31, 1926.  
 Trafton, Me. St. Bd. Agr. R. 22, 44-45, 1926.  
 Urbahns, Cal. Agr. B. 14, 176-177, 1926.
- Galerucella nymphaeae* (Pond-lily leaf beetle)  
 Mutchler & Weiss, N. J. Dept. Agr. Bur. Stat. & Inspec. C. 98, 7-8, 1926.
- lbScott, Tr. Amer. Micr. Soc. 43, 11-16, 1924.
- Galerucella* spp.—New Jersey  
 biMutchler & Weiss, N. J. Dept. Agr. Bur. Stat. & Inspec. C. 98, 1926, 16 p.
- Galerucella spiraeae* (Meadow-sweet leaf beetle)  
 Mutchler & Weiss, N. J. Dept. Agr. Bur. Stat. & Inspec. C. 98, 9, 1926.
- Galerucella xanthomelaena*, *see* *Galerucella luteola*
- Galerucinae*  
 iBöving, Proc. Ent. Soc. Wash. 29, 193-205, 1927.  
 iBöving, PUSNM 75; 2, 1929, 48 p.  
 Bowditch, Psyche 32, 444-464, 1925.

*Galesus punctiger*

nFouts, Proc. Ent. Soc. Wash. 28, 170-171, 1926.

*Galgupha ovalis*

nHussey, J. N. Y. Ent. Soc. 33, 62-63, 1925.

*Galleria mellonella* (Wax moth)\*

- Bliss, Iowa Ext. B. 138, 14, 1926.  
 Buchanan, South Agr. 59: 20; 22, 1929.  
 iEssig, Insects of Western No. Amer. 1926, 707-708.  
 Harris, Amer. B. J. 65, 373, 1925.  
 Harris, Iowa Agriculturist 25, 174, 1925.  
 Hutson, Am. Bee J. 66, 273-274, 1926.  
 Lipman, N. J. R. 47, 20, 1927.  
 Paddock, Am. Bee J. 65, 340, 1925.  
 Paddock, Am. Bee J. 66, 555, 1926.  
 Paddock, J. Ec. Ent. 19, 136-141, 1926.  
 Paddock, Tr. Iowa Hort. Soc. 62, 355-358, 1927.  
 Paddock, Iowa Ext. B. 154, 19-21, 1929.  
 Prevost, Clemson Coll. S. C. Wkly. News Notes 15: 6, 1926.  
 Vansell, Cal. C. 297, 13, 1925.

\**Gall-making maple borer, see* *Xylotrechus aceris**Gall insects*

- iChamplain, Nat. Mag. 10, 170, S. 1927.  
 Felt, Bartlett Tree Res. Lab. Radio Tree Talks II, 52-55, 1929.

*Galls*

- Felt, N. Y. St. Mus. B. 274, 169-171, '28.  
 Gordon, Lloyd Libr. Bul. 27, 184, 1926.  
 Sherman, Clemson Col. S. C. Wkly. News Notes 16, 45, 1928.

*Galls—Cynipidae—Chicago area*

- Weld, Ill. St. Acad. Sci. Tr. 20, 142-177, 1928.

*Galls of pecans*

- Woodard, Texas Dept. Agr. B. 81, 179, 1925.

*Galls—Dipterous—California*

- iBallou, J. Ent. & Zool. 17; 1, 1-8, 1925.  
 biBallou, J. Ent. & Zool. 18; 1, 25-32, '26.  
*Galumna areolata* 30, *banksi* 29-30, *coleopraturum* 32, *flagelliferum* 31, *pau-cisetosum* 32-33  
 nibJacot, B. Harvard Mus. Comp. Zool. 69, 1929.

*Galumna samoensis*

- nJacot, Tr. Amer. Micro. Soc. 43, 85-89, 1924.

**Galumna swezeyi**

nJacot, *Psyche* 35, 214, 1928.

**Galumna virginienensis**

nbiJacot, *B. Harvard Mus. Comp. Zool.* 69, 33, 1929.

**Galumninae**

ibJacot, *Harvard Mus. Comp. Zool. B.* 69: 1, 1929, 37 p.

**Ganocapsus filiformis—Arizona**

Van Duzee, *Pan-Pac. Ent.* 2, 22, 1925.

\*Garden flea hopper, *see* *Halticus citri*

**Garden insects**

Baade, *Cal. Cult.* 67, 106, 1926.

iBrownell, *Nat. Mag.* 13, 393-396, 1929.

Chesley, *Flower Grow.* 14, 383, 1927.

Compton, *Ill. Hort. Soc. Tr.* 60, 413, 1926.

Coulson & Baker, *J. Agr. & Hort. Quebec*, 33; 1, 7-8, 1929.

Crawford, *New Mex. R.* 34, 18, 1927.

Davault, *Ont. Ent. Soc. R.* 56, 83-85, 1926.

Day, *Purdue Agr.* 19, 121, 1925.

Easton, *House Beautiful*, 58, 252, 1925.

iFox, *U. S. Bur. Ed. B.* 1925: 15, 98 p.

Garcia, *N. M. Ann. R.* 39, 21, 1928.

Gast, *Pac. Rur. Press* 118, 109, 1929.

Gibson, *Can. Dept. Agr. B.* 99 (n. s.), 1928, 56 p.

iGregory & Davis, *Common Garden Pests*, 1928, 150 p.

iGrinstead, *Success. Farming*, 24; 3, 44, 1926.

Groves, *Can. Hort.* 52, 236-237, 1929.

Harrington, *Dakota Farmer* 45, 590, 1925.

Herrick, *Amer. Agr.* 124, 294, 1929.

Hutchings, *Ont. Ent. Soc. R.* 57, 7-8, 1927; *R.* 58, 7-9, 1928.

bKing, *Sci. Agr.* 9, 386-389, 1929.

iLaurie, *W. Va. Wild Life*, 7; 7, 24-26, 1929.

Lawrie, *Nat. Mag.* 13, 393-396, 1929.

Lieber, *Ind. Dept. Conserv. R.* 8, 52-59, 1926; *R.* 9, 56-60, 1927.

McHatton, *Piror & Keener, Ga. Ext. B.* 257 rev., 23, 1926.

Machintosh, *Farm.* 44, 958, 1926.

iMason, *Spraying*, 254-265, 505-522, 1928.

Motherwell, *Can. Min. Agr. R. f*, 1929, 117-119.

Murphy, *Garden Club Amer. B.* 5; 4, 93, 1929.

iO'Kane, *Garden & Home Blder.* 47, 232, 234, 1928.

iParks, *Pierstorff & Stover, Ohio Ext. B.* 76, 1928, 40 p.

Pepper, *S. C. Clemson Col. Wkly. News Notes* 44; 43, 1926.

Perry, *La Hacienda* 22, 245-247, 1927.

Rosborough, *Farm & Ranch*, 48: 39, 15, 1929.

Rosborough, *Valley Farmer*, 3; 6, 16, '29.

Smith, *Better Homes & Gard.* 4: 11, 18, 40-41, 1926.

iTalbert, *Amer. Prod. Grow.* 4; 8, 8-9, '29.

Thompson, *Virgin Isl. B.* 6, 6-8, 1926.

Waid, *Ohio Farm.* 161, 749, 1928.

Wallace, *Ind. Dept. Conserv. R.* 10, 69-73, 1929.

Weigel, *Amer. Hort. Soc. B.* 3, 1926, 12 p.

Weigel & Middleton, *U. S. F. B.* 1495, 1926, 54 p.

Weinberger, *Gard. Chronicle*, 32, 229, 1928.

Wilson, *Insects & their Control*, 1929, 342 p.

Garden slug, *see* *Agriolimax agrestis*

\*Garden springtail, *see* *Sminthurus hortensis*

\*Garden webworm, *see* *Loxostege similalis*

*Gardena agripina* 73, *americana* 69,

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*eutropia* 71, *faustina* 73, *marcia* 72,

*messalina* 72, *pipara* 72, *poppaea* 74,

*pyralis* 73, spp.—Key 67; McAtee &

Malloch, *U. S. N. M. P.* 67; 1, 1925.

*Gargantua*—sp.

iPickwell, *Nat. Mag.* 14; 2, 107-108, 1929.

*Garganus splendidus*

Van Duzee, *Pan-Pac. Ent.* 2, 22, 1925.

*Gargaphia amorphae*, *binotata*

Drake, *Fla. Ent.* 9, 37, 1925.

*Gargaphia patricia*

Drake, *Ann. Carnegie Mus.* 16, 377, '26.

*Gargaphia solani*

Morrill, *Cal. Dept. Agr. Sp. Pub.* 73, 77, 1927.

*Gargaphia tiliae* (Linden lacebug)

Drake, *Ann. Carnegie Mus.* 16, 378, '26.

Gas warfare—Medical aspects

ibIreland, *Med. Dept. U. S. A. in World War*, 14, 1926, 876 p.

**Gases—Critical constants—Review of Literature**

Blanchard & Pickering, U.S. Bur. Standards Sci. Papers 541 (v. 21, 597-629) 1926.

**Gases—Normal density—Review of Literature**

Pickering, U. S. Bur. Standards Sci. Paper 529 (v. 21, 141-177) 1926.

**Gastraulacus nevermanni, spp.—Key**

nBarber, Proc. Ent. Soc. Wash. 27, 63, 1925.

**Gastroidea cyanea**

Brisley, Tr. Amer. Ent. Soc. 51, 171 '25.

**Gastroidea cyanea**

iMote, Ore. C. 65, 39-40, 1926.

**Gastrophilus equi, see Gastrophilus intestinalis (Horse botfly)\***

**Gastrophilus haemorrhoidalis (Nose botfly)\***

— Nebr. Farmer 67, 1011, 1925.

**Gastrophilus intestinalis (Horse botfly)\***

iBishopp & Dove, U.S.F.B. 1503, '26, 14p.

iBrittain, N. S. Dept. Nat. Resource B. 12, 98-100, 1927.

iShillinger, Vet. Med. 22, 406, 1927.

i— Cornell Rur. Sch. Leaf. 18; 3, 19, 1925.

**Gastrotheus lepismoideus—new combination**

bnFolsom, P.U.S.N.M. 72: 6, 4, 1927.

**Gastrothrips fuscicauda**

nMorgan, Fla. Ent. 9: 1, 6-8, 1925.

**Gauperdia apivora**

Rau, St. Louis Acad. Sci. Tr. 25, 235, '27.

**Gaurax dorri**

nJohnson, Psyche 32, 47, 1925.

**Gaurax dorsalis**

Baldus, Ohio J. Sci. 29, 239, 1929.

**Gaurotres cyanipennis**

Champlain, Kirk & Knull, Ent. News 36, 107, 1925.

Peirson, Me. For. Serv. B. 5, 47, 1927.

**Gazophylacii of James Petiver**

Weiss, J. N. Y. Ent. Soc. 35, 411-414, 1927.

**Gelastogonia hirsuta**

niHaviland-Brindley, Zoologica, N. Y. 6, 256, 1925.

**Gelastocoris cucullatus, duplicatus, fuscus**

niMartin, Kans. Univ. Sci. B. 18, 363-364, 1928.

**Gelastocoris oculatus (Toadbug)\***

iPayne, J. Morphology & Physiology 43, 299-343, 1927.

**Gelastocoris sp**

Martin, Kans. Univ. Sci. B. 18, 351-369, 1928.

**Gelastogonia funkhouseri**

nGoding, Bklyn, Ent. Soc. B. 23, 138-139, 1928.

**Gelchossa dampfi, praestantis**

nDrake, Bklyn, Ent. Soc. B. 22, 116-117, 1927.

**Gelechia confusella**

Chapman, J. Ec. Ent. 22, 595, 1929.

**Gelechia fructuaria**

nBraun, Trans. Amer. Ent. Soc. 51, 193-194, 1925.

**Gelechia frugalis**

nBraun, Trans. Amer. Ent. Soc. 51, 194-195, 1925.

**Gelechia mandella**

Braun, Can. Ent. 58, 47, 1926.

**Gelechia monotaeniella**

nBottimer, J. Agr. Res. 33, 813-814, 1926.

**Gelechia nigrobarbata, occlusa**

nBraun, Can. Ent. 57, 125-126, 1925.

**Gelechia oronella**

Peirson, Me. For. Serv. B. 5, 24, 1927.

**Gelechia permacta, petulans**

nBraun, Can. Ent. 57, 125, 126-127, 1925.

**Gelechia prognosticata**

nBraun, Trans. Amer. Ent. Soc. 51, 195-196, 1925.

**Gelechiidae**

bBraun, Ann. Ent. Soc. Amer. 21, 463-468, 1928.

Keen, Cal. Dept. Nat. Resources Div. For. B. 7, 79-80, 1928.

**Gelis apantelis**

nCushman, J. Agr. Res. 34, 454, 1927.

bMuesebeck & Dohanian, U. S. D. A. B. 1487, 16-17, 1927.

**Gelis bucculatricis**

nCushman, J. Agr. Res. 34, 456-457, 1927.

ibMuesebeck & Dohanian, U. S. D. A. B.

1487, 16-17, 1927.

**Gelis inutilis**

nCushman, J. Agr. Res. 34, 445, 1927.

bMuesebeck & Dohanian, U. S. D. A. B. 1487, 16-17, 1927.

**Gelis noccus**

- nCushman, J. Agr. Res. 34, 445-456, 1927.  
 bMuesebeck & Dohanian, U. S. D. A. B.  
 1487, 16-17, 1927.

**Gelis urbanus**

- nCushman, J. Agr. Res. 34, 457-458, 1927.  
 bMuesebeck & Dohanian, U. S. D. A. B.  
 1487, 16-17, 1927.

**Gelus californicus**

- Keen, Cal. Dept. Nat. Resources B. 7,  
 72, 1928.

**Geocnethus cavicollis**

- Hussey, J. N. Y. Ent. Soc. 33, 63-64, '25.

**Geocoris frisoni**

- nBarber, Bklyn. Ent. Soc. B. 21, 38-39, '26.

**Geocoris punctipes**

- Watson, Fla. Dept. Agr. Quar. B. 39;  
 3, 109-110, 1929.

**Geocica radicola, squamosae**

- iCutright, Ohio B. 387, 211-214, 1925.

**Geometridae**

- Forbes, Psyche 32, 106-112, 1925.  
 Wright, San Diego Soc. Nat. Hist. Tr.  
 5, 41-44, 1927.

**Georgia gillettei**

- niMaxson & Hottes, Ent. News 37, 130-  
 132, 1926.

**Geotrupes horni**

- Frost, Psyche 36, 111, 1929.

**Geotrupes stercorarius**

- Gorham, et al Ont. Ent. Soc. R. 59, 15,  
 1929.

- Hayes, Ann. Ent. Soc. Amer. 21, 287, '28.

**Geranomyia cerverus**

- nAlexander, J. N. Y. Ent. Soc. 35, 266-  
 267, 1927.

**Geranomyia diversa**

- Rogers, Fla. Ent. 10; 1, 5, 1926.

**Geranomyia eurygramma, pentheres, per-**

- fecta; nAlexander, Ann. Ent. Soc.  
 Amer. 21, 107-109, 1928.

**Geranomyia recisa**

- nAlexander, J. N. Y. Ent. Soc. 35, 267-  
 268, 1927.

**Geranomyia rostrata**

- liRogers, Fla. Ent. 11, 17-26, 1927.

**Geranomyia turbida**

- nAlexander, Ann. Ent. Soc. Amer. 21,  
 107, 1928.

**\*German cockroach, see Blatella germanica****Gerridae—N. Am.—Distribution notes**

- iDrake & Harris, Ohio J. Sci. 28, 269-  
 276, 1928.

**Gerris (Gerris) comatus**

- nDrake & Hottes, Ohio J. Sci. 25, 48, '25.

**Gerris incognitus 73, incurvatus 72, insperatus 71, nebularis 70-71**

- nDrake & Hottes, Proc. Biol. Soc. Wash.  
 38, 1925.

**Gerris notabilis, nyctalis, pingreensis**

- nDrake & Hottes, Ohio J. Sci. 25, 46, 47,  
 49, 1925.

**Gerris uhleri**

- nDrake & Hottes, Proc. Biol. Soc. Wash.  
 38, 69-70, 1925.

**Gerstaeckeria calthrata**

- Essig, Insects of Western No. Am. '26, 507.

**Gerstaeckeria cubaecola**

- nFisher, Proc. Ent. Soc. Wash. 30, 7, 1928.

**Gerstaeckeria doddi**

- nFisher, J. Wash. Acad. Sci. 15, 425-  
 426, 1925.

**Gerstaeckeria elegans, insulana, unicolor**

- nFisher, Proc. Ent. Soc. Wash. 30, 4-7, '28.

**Gerydus chinensis**

- Clark, Smithsonian Inst. R. f, 1925,  
 453, 1926.

**Gesomyrmex, kalshoveni**

- iWheeler, Psyche 36, 1-12, 91-92, 1929.

**Ghilianella aliena 106, alterata 107,**

- alveola 104, amicula 127, angulata  
 128, annectens 125, apiculata 111,  
 approximata 117, aracataca 112,  
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 121, subglobulata 121, succincta 105,  
 truncata 126, uncinata 122, vari-  
 cornis 101; McAtee & Malloch, P.U.  
 S. N. M. 67; 1, 1925.



- Giant aphid, *see* *Longistigma caryae*  
 Giant crane fly, *see* *Holorusia rubiginosa*  
 Giant hornet, *see* *Vespa crabro*  
 Giant horntail, *see* *Sirex juvenecus*  
 Giant root borer of apple, *see* *Prionus laticollis*  
 Giant skipper, *see* *Epargyreus tityrus*  
 Giant slug of Europe, *see* *Limax maximus*  
 \*Giant stag beetle, *see* *Lucanus elaphus*  
 Giant water beetle, *see* *Hydrous trian-gularis*  
 \*Giant water bug, *see* *Lethocerus ameri-canus*  
 Giant willow aphid, *see* *Pterochlorus viminalis*  
 Giffard, Walter M.—An appreciation  
   VanDuzee, Pan-Pac. Ent. 6, 46-47, 1929.  
 Gillettea cooleyi, (Long spruce gall)  
   iBritton & Zappe, Conn. B. 292, 166, '27.  
   Cooley, Mont. B. 170, 25, 1925.  
   Friend, Proc. Nat. Shade Tree Con-ference 5, 65-66, 1929.  
 Ginger quill, *see* *Ephemerella dodsii*  
 Ginglychaeta n. gen., seriata  
   nAldrich, Trans. Amer. Ent. Soc. 52, 21-22, 1926.  
 Ginglymacarus dasypus  
   Miller, Ohio B. 386, 144, 1925.  
 Ginglymocladius—an entomological en-igma  
   iFerris, Can. Ent. 59, 279-281, 1927.  
 \*Gipsy moth, *see* *Porthetria dispar*  
 Girdled cicada, *see* *Tibicen cinctifera*  
 Gisara brauni 33, brewsteri 32-33, met-calfi 33-34, meyeri 32  
   nSchaus, P. U. S. N. M. 73; 19, 1928.  
 Glaenocorixa hybrida  
   nHungerford, Can. Ent. 58, 271, 1926.  
 Glaresis canadensis, confusa, knausi  
   niBrown, Can. Ent. 60, 73-76, 1928.  
 \*Glassy cutworm, *see* *Sidemia devastator*  
 Glaucopsyche lygdamus  
   iComstock, So. Cal. Acad. Sci. B. 25, 48, 1926; B. 28; 1, 6, 1929.  
   Gunder, Can. Ent. 59, 282, 1927.  
 Glaucopsyche xerces  
   niGunder, Can. Ent. 59, 282, 1927.  
 Glena alpenata  
   nCassino, Lepidopterist 4, 74-75, 1927.  
 Glenanthe litorea  
   nCresson, Ent. News 36, 166, 1925.  
 \*Globose scale, *see* *Lecanium prunastri*  
 \*Gloomy scale, *see* *Chrysomphalus tene-bricosus*  
 Glossina morsitans  
   iChandler, Animal Parasites ed. 3, 449-504, 1925.  
 Glossina palpalis (Tsetse fly)  
   iChandler, Animal Parasites ed. 3, 98-108, 1925.  
   Rawson, J. Amer. Vet. Med. Assoc. 74: 7, 1030, 1929.  
 Glossonotus nimbatulus  
   nBall, Wash. Acad. Sci. J. 15, 200, 1925.  
 Glossosoma sp.  
   Needham & Christenson, Utah. B. 201, 22, 1927.  
 \*Glover's scale, *see* *Lepidosaphes gloveri*  
 Glow worm—Light  
   Coblentz & Hughes, U.S. Bur. Standards. Sci. Papers, 538, 531-532, 1926.  
 Gluphisia septentrionalis  
   nBarnes & Benjamin, Can. Ent. 59, 10, 1927.  
 Glutathione in insects  
   ibFink, J. Ec. Ent. 20, 794-801, 1927.  
   Fink, Science 65, 143-145, 1927.  
 Glutops singularis  
   Cresson, Ent. News 36, 211, 1925.  
 Glyciphagus domesticus  
   Miller, Ohio B. 386, 150, 1925.  
   iSchwartz & Shook, U. S. D. A. FB 1568, 8, 1928.  
 Glyciphagus robustus  
   Miller, Ohio B. 386, 150-151, 1925.  
 Glycobius speciosus (Sugar-maple borer)\*  
   iHutchings, Quebec Soc. Protec. Plants R. 17, 42-43, 114, 1925.  
   iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 34-35, 1926.  
 Glyptaelius hostilis  
   Dodds & Hisaw, Ecology 6, 124, 1925.  
 Glypta (Glypta) rosaceanae  
   nViereck, Can. Ent. 58, 55, 1926.  
 Glypta rufiscutellaris  
   Daniel, Amer. Agr. 124, 361, 1929.  
   iDaniel, N. Y. Gen. C. 106, 7-8, 1928.  
   Garman, Conn. B. 305, 733-734, 1929.  
   Peterson, Ont. Ent. Soc. R. 59, 85, 1929.  
   Stearns & Neiswander, Tenn. St. Hort. Soc. Proc. 24, 89-90, 1929.  
 Glyptina maritima  
   nFall, Can. Ent. 59, 140, 1927.

- Glyptina spuria*  
Weese, Ill. Biol. Mon. 9; 4, 13-14, 1924.
- Glyptophorus*  
nPark, J. N. Y. Ent. Soc. 37, 430-432, '29.
- Glyptoscelis squamulata*  
Brisley, Trans. Amer. Ent. Soc. 51, 168, 1925.  
Jacobsen, Cal. Dept. Agr. Mo. B. 15, 130, 1926.  
Merrill, Cal. R. f. 1927-28, 33-34, 1929.  
Merrill, Cal. R. f. 1927-28, 55-56, 1929.  
Nougaret, Cal. Grape Grow. 7; 4, 11, 1926.
- Glyptotermes* subgenus  
Snyder, J. Wash. Acad. Sci. 15, 157, 1925.
- Gnathocerus cornutus*  
iBack & Cotton U. S. F. B. 1260, rev. Dec. 1925, 36.
- Gnathomerium xenoporus*  
Chamberlin, J. Ent. & Zool. 17, 54, '25.
- Gnathopaederus* n. gen., szechuanus  
nChapin, Pro. Biol. Soc. Wash. 40, 75-77, 1927.
- Gnathotrichus retusus*  
iKeen, Cal. Dept. Nat. Resources Div. For. B. 7, 56-57, 1928.
- Gnathotrichus sulcatus*  
Doane & Gilliland, J. Ec. Ent. 22, 915-921, 1929.
- Gnophomyia flagrans*  
nAlexander, J. N. Y. Ent. Soc. 36, 364-365, 1928.
- Gnophomyia luctuosa*  
iRogers, Ann. Ent. Soc. Amer. 21, 398-406, 1928.
- Gnophomyia pallidapex*  
nAlexander, Ann. Ent. Soc. Amer. 22, 783, 784, 1929.
- Gnorimoschema albangulata*  
nBraun, Can. Ent. 58, 46-47, 1926.
- Gnorimoschema consuetu, macromaculata*  
nBraun, Trans. Amer. Ent. Soc. 51, 191-193, 1925.
- Gnorimoschema vastifica*  
nBraun, Can. Ent. 58, 47, 1926.
- Gnoriste macroides*  
nCurran, Can. Ent. 59, 79-80, 1927.
- Gnyoplistia pirioni*  
nAlexander, J. N. Y. Ent. Soc. 36, 53-54, 1928.
- \*Goat follicle mite, *see* *Demodex capri*
- Goat scab mite, *see* *Chorioptes caprae*
- Goditha* n. gen., rumeliana  
niHeinrich, U. S. N. M. B. 132, 8-9, 1926.
- Goeldia longipes*  
Shannon, J. Wash. Acad. Sci. 15, 137-138, 1925.
- Goeldia*—spp key  
Dyar, Ins. Insc. Mens. 13, 127, 1925.
- Goes novus*  
nFall, Bklyn. Ent. Soc. B. 23, 236-239, 1928.
- Goes pulchra*  
Peirson, Me. For. Serv. B. 5, 72, 1927.
- Goes tigrinus*  
Flint, No. Nut. Grow. Assoc. R. 16, 108-109, 1925.
- Gold bug, *see* *Coptocycla aurichalcea*
- Golden chalcid, *see* *Aphelinus diaspidis*
- Golden-eyed lacewing, *see* *Chrysopa* sp.
- Golden oak scale, *see* *Asterolecanium variolosum*
- Golden spider beetle, *see* *Niptus hololeucus*
- \*Golden tortoise beetle, *see* *Mettriona bicolor*
- Golden-winged elder borer, *see* *Desmocerus auripennis*
- Goldenglow aphid, *see* *Macrosiphum rudbeckiae*
- Goldenglow borer, *see* *Epiblema caroliniana*
- Goldenrod beetle, *see* *Trirhabda canadensis*
- Goldsmith beetle, *see* *Cotalpa lanigera*
- Golf greens—Insects  
iLeach, Golfdom 2; 2, 13-15, 1928.
- Golgi, Camillo 1843-1926  
W. A. H., J. Ec. Ent. 19, 674, 1926.
- Gomphinae—Key to genera  
bSeemann, J. Ent. & Zool. 19, 18-19, 1927.
- Gonarticoidea* n. gen., argenteiceps  
nCurran, Can. Ent. 59, 253-254, 1927.
- Goniarrhenus planum*  
Hubbell, Fla. Ent. 9, 43-44, 1925.
- Goniochaeta fuscibasis*  
nAldrich, Trans. Amer. Ent. Soc. 52, 24, 1926.
- Gonicocotes bidentatus* 8, damicornis 8, gigas 7, hologaster 7  
iSwenk & Mussehl, Neb. C. 37, 1928.
- Goniodes dissimilis, stylifer*  
iSwenk & Mussehl, Neb. C. 37, 7, 8, '28.

- Goniolomus tricorniger*  
iMetcalf & Bruner, Bklyn. Ent. Soc. B. 20, 207-208, 1925.
- Goniothrips* n. gen., *denticornis*  
nHood, Proc. Biol. Soc. Wash. 40, 202, 1927.
- Goniozus brevinervis*, *electus*  
nFouts, Proc. Ent. Soc. Wash. 30, 128-129, 132, 1928.
- Goniozus euliae*  
nFouts, Proc. Ent. Soc. Wash. 28, 167, 1926.
- Goniozus flavipes*, spp.—key  
nFouts, Proc. Ent. Soc. Wash. 30, 127-128, 130-131, 1928.
- Gonomyia pleuralis*  
iRogers, Fla. Ent. 10, 33-38, 1926.
- Gonomyia* spp.  
nAlexander, Ann. Ent. Soc. Amer. 22, 784-785, 1929.  
nAlexander, Pan. Pac. Ent. 3, 78-79, 1926.  
nAlexander, Ins. Insc. Mens. 14, 117-119, 1926.  
nAlexander, Can. Ent. 58, 239-240, 1926.  
nAlexander, Can. Ent. 59, 191, 1927.  
nAlexander, J. N. Y. Ent. Soc. 35, 59-60, 274-276, 1927.  
nAlexander, Ins. Insc. Mens. 14, 117-119, 1926.  
nAlexander, Ann. Ent. Soc. Amer. 19, 165-166, 1926.  
nAlexander, J. N. Y. Ent. Soc. 35, 164-168, 225-227, 1926.  
nAlexander, N. Y. Ent. Soc. J. 36, 116-117, 365-367, 1928.
- niAlexander, Ann. Ent. Soc. Amer. 18, 349-350, 1925.
- nAlexander, Ann. Ent. Soc. Amer. 19, 275-276, 306-308, 1926.
- Gonotropis gibbosus*  
Blatchley, J. N. Y. Ent. Soc. 33, 88, 1925.
- Gooseberry aphid, *see* *Aphis neomexicanus*
- Gooseberry bud midge, *see* *Rhopalomyia grossulariae*
- \*Gooseberry fruit worm, *see* *Zophodia grossulariae*
- Gooseberry insects  
Caesar, Ont. Dept. Agr. B. 318, 20-23, 1926.  
Jardine, Orego. Bien. Rept. 1924-26, 100, 1926.
- Swan, Better Fruit 21; 9, 10, 1927.
- \*Gooseberry witch-broom aphid, *see* *Myzus houghtonensis*
- Gorgas and Yellow fever  
Martin, Gorgas, 1929, 74 p.
- Gorgas memorial  
— Amer. J. Trop. Med. 5, 87, 1925.  
— Science 68, 613, 1928.  
— Science 69, 465, 1929.
- Gortyna micacea (Potato stem borer)  
iBrittain, N. S. Dept. Nat. Resource B. 12, 88, 1927.  
Spittall, Proc. Acadian Ent. Soc. 10, 69-70, 1925.
- Gortyna stramentosa  
Bird, J. N. Y. Ent. Soc. 33, 184-185, '25.
- Gossard, Harry Arthur—Obituary notice  
Osborn, J. Ec. Ent. 19, 193-195, 1926.
- Gossyparia spuria (European elm scale)\*  
iBritton & Zappe, Conn. B. 292, 153, '27.  
iButcher, Kans. Ent. Comm. Bien. R. 11, 5-6, 1927-1928.
- ibEssig, Insects of Western No. Amer. 1926, 274-275.
- Gillette & Langford, Colo. Ent. C. 46, 5-6, 1925.
- Glenn, Ill. Dept. Agr. R. 12, 18, 1929.
- Hollister & Jacobs, J. Ec. Ent. 21, 198-200, 1928.
- liHungerford & Dean, Kans. Ent. Comm. C. 9, 1929, 8 p.
- Peirson, Me. For. Serv. B. 5, 57, 1927.
- iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 50-51, 1926.
- iTrimble, Pa. Dept. Agr. B. 8; 2, 4, 1925.
- Trimble, Pa. Dept. Agr. Gen. B. 480, 4, 1929.
- Yetter, Colo. Ent. C. 51, 11-12, 1926.
- Gracilaria azaleella* (Azalea leaf miner)  
iBroadbent, Flor. Exchange 62, 1059, '26.  
Broadbent, J. Wash. Acad. Sci. 17, 175, 1927.
- Gracilaria cornusella*  
nBraun, Can. Ent. 59, 57-58, 1927.
- Gracilaria elotella*  
Petch & Armstrong, Quebec Soc. Protec. Plts. R. 17, 76, 1925.
- Gracilaria invariabilis*  
nBraun, Can. Ent. 59, 58, 1927.
- Gracilaria melanocarpae*  
nBraun, Trans. Amer. Ent. Soc. 51, 215-216, 1925.

*Gracilaria negundella* (Box elder leaf roller)  
 ideGryse, Can. Dept. Agr. Ent. Br. Pam. 47, n. s. rev. ed. 19, 1925.  
 iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 121-124.  
*Gracilaria rhoifoliella*  
 Criddle, Can. Ent. 59, 101, 1927.  
*Gracilaria syringella* (Lilac leaf miner)  
 Downes, Proc. Ent. Soc. B. C. 25, 17, 1928.  
 Felt, J. Ec. Ent. 20, 844, 1927.  
 Hutchings, Ont. Ent. Soc. R. 55, 19-23, 1925.  
 Hutchings, Flower Grow. 15; 7, 337, '28.  
 Hutchings, Quebec. Soc. Protec. Plt. R. 20, 72-73, 1928.  
 Ross & Caesar, Ont. Ent. Soc. R. 59, 21-22, 1929.  
 iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 30, 1926.  
*Gracilaria umbratella*  
 nBraun, Can. Ent. 59, 57, 1927.  
 Graf Zeppelin & insect importation  
 Kisliuk, Ent. News, 61, 196-197, 1929.  
 Kisliuk, J. Ec. Ent. 22, 594-595, 1929.  
 Grain insects, *see* Stored grain insects  
 \*Granary weevil, *see* *Sitophilus granarius*  
 \*Granulate cutworm, *see* *Feltia annexa*  
 \*Grape berry moth, *see* *Polychrosis viteana*  
 \*Grape blossom midge, *see* *Contarinia johnsoni*  
 \*Grape cane gall maker, *see* *Ampelogypter sesostris*  
 \*Grape colaspis, *see* *Colaspis brunnea*  
 \*Grape curculio, *see* *Craponius inaequalis*  
 \*Grape flea beetle, *see* *Haltica chalybea*  
 Grape insects  
 iBarnett, Kans. C. 134, 27-29, 1928.  
 Dohanian, Psyche 34, 146-156, 1927.  
 Engle, Ohio St. Hort. Soc. Proc. 59, 37-42, 1926.  
 Byer & McCubbin, Pa. Dept. Agr. B. 433, 1927, 27 p.  
 G. F. E. Rural, N. Y. 85, 952, 1926.  
 Gladwin, Rur. N. Y. 87, 606, 643, 1928.  
 Hartzell, N. Y. Hort. Soc. R. 57, 11-22, 1927.  
 iHedrick, Manual of Amer. Grape Grow. new. ed. 1924, 458 p.  
 Hedrick, N. Y. Gen. R. 48, 56, 1929.

iHolland & Parks, Ohio Ext. B. 20, 10, 13-15, 1925.  
 iMason, Spraying, 332-352, 1928.  
 Matthews, Ky. Ext. C. 209, 22-24, 1927.  
 Meyer, Mo. Ext. C. 166, 3-4, May 1925.  
 Rhoads, Fla. B. 178, 145-150, 1926.  
 Runner, Ohio St. Hort. Soc. Proc. 59, 30-36, 1926.  
 Runner, Ohio Hort. Soc. Ann. R. 61, 123-125, 1928.  
 Runner, Ohio St. Hort. Soc. Proc. 63, 123-125, 1928.  
 Thatcher, N. Y. Gen. R. 43, 41, 1924; R. 44, 38, 1925; R. 45, 41, 1926.  
 \*Grape leaf folder, *see* *Desmia funeralis*  
 \*Grape leafhopper, *see* *Erythroneura comes*  
 \*Grape leaf skeletonizer, *see* *Harrisina americana*  
 \*Grape mealybug, *see* *Pseudococcus maritimus*  
 Grape mite  
 Morrison, Cal. Agr. Mo. B. 17, 379, 1928.  
 \*Grape phylloxera, *see* *Phylloxera vitifoliae*  
 \*Grape plume moth, *see* *Oxyptilus periscelidactylus*  
 \*Grape root borer, *see* *Paranthrene polistiformis*  
 \*Grape root worm, *see* *Fidia viticida*  
 \*Grape sawfly, *see* *Erythraspidis pygmaea*  
 \*Grape scale, *see* *Aspidiotus uvae*  
 \*Grape seed chalcid, *see* *Evoxysoma vitis*  
 Grape thrips, *see* *Drepanothrips reuteri*  
 Grape tomato gall, *see* *Lasioptera vitis*  
 Grape tube gall, *see* *Cecidomyia viticola*  
 \*Grape vine aphid, *see* *Aphis illinoisensis*  
 \*Grape flea beetle, *see* *Haltica chalybea*  
 Grapefruit aphid, *see* *Toxoptera aurantiae*  
 Graphisurus obliquus  
 iKeen, Cal. Dept. Nat. Resources Div. For. B. 7, 62-65, 1928.  
 Graphocephala *affinula* 225, *attenuata* 222, *brevisula* 223, *cardinula* 226, *contractula* 224, *curvatula* 224, *humeralis* 231-232, *involuta* 223, *lineola* 231, *longula* 225-226, *separata* 226, *simillima* 222, *spinosa* 232, *submarginalis*, 229-230; niOsborn, Ann. Carnegie Mus. 16, 1926.  
 Grapholitha, *see* *Laspeyresia*

- Grapta comma, interrogationis*  
i— Md. Acad. Sci. Quar. B. 6; 2, 25, 26, 1927.
- Graptolitha antennata* *see* *Xylina antennata* (Green fruit worm)\*
- Graptolitha bethunei*  
iBrittain, N. S. Dept. Nat. Resource B. 12, 32-34, 1927.
- Graptolitha lemmeri*  
nBarnes & Benjamin, Bklyn. Ent. Soc. B. 24, 165-166, 1929.
- Graptolitha ricardi*  
nBarnes & Benjamin, Can. Ent. 59, 7, 1927.
- Graptolitha tarda*  
nBarnes & Benjamin, Pan. Pac. Ent. 2, 13-14, 1925.
- Graptolitha thaxteri, vanduzeei*  
Barnes, Pan. Pac. Ent. 5, 8, 9, 1928.
- Graptomyza antipoda*  
nShannon, Proc. Ent. Soc. Wash. 29, 83-84, 1927.
- Graptomyza breviscutum*  
nCurran, Amer. Mus. Nov. 340, 7-8, 1929.
- Graptomyza nitis*  
niCurran & Bryan, Ann. Ent. Soc. Amer. 19, 83-84, 1926.
- Grass carrier wasp, *see* *Chlorion auripes*
- Grass feeding froghopper, *see* *Philaenus lineatus*
- Grass mite, *see* *Pediculopsis graminum*
- Grass-root mealybug, *see* *Ripersia radicola*
- \*Grass thrips, *see* *Aphanothrips obscurus*
- ‡Grasshoppers  
Brittain, N. S. Dept. Nat. Resource B. 12, 68-69, 1927.  
Britton, Sci. Mo. 25, 541-545, 1927.  
Britton & Anderson, Conn. Tobacco Expt. Sta. B. 6, 92 T 1926.  
Brooks et al Fla. B. 204, 521, 1929.  
Burr, Neb. R. 41, 18, 1928.  
iCaudell, Sci. Month. 26, 329-334, 1928.  
Caverhill, B. C. Dept. Lands. For. Br. R. f. 1929, B 47.  
iChambers, Wis. Dept. Agr. B. 69, 76-81, 1924.  
Compton, Canning Trade 48; 51, 10-12, 1925.  
Compton, Ill. C. 297, 27, 1925.  
Conner, Okla. Ext. C. 213, 29-30, 1925.  
Cooley, Mont. R. 31, 31-32, 1925.  
Cridle, Ont. Ent. Soc. R. 55, 13-16, 1925.  
Fernald, Applied Ent. ed. 2, 81-87, 1926.  
iFry, J. N. Y. Ent. Soc. 35, 41-50, 1927.  
Gillette, Col. R. 40, 31, 1927.  
Granovsky, J. Ec. Ent. 18, 73-83, 1925.  
Granovsky, J. Ec. Ent. 19, 791-795, 1926.  
Hawley, Utah C. 54, 17-23, 1925.  
iHume, Cult. of Cit. Frts. 1926, 426-427.  
Jolly, Tex. Ext. Ser. Farm News 10, 19, 4, 1925.  
Jones, Tex. Ext. Ser. Farm. News 10; 19, 4, 1925.  
iKelly, Kans. Ext. B. 62, 18-23, 1929.  
Langford, Colo. Ent. C. 47, 21-24, 1925.  
Langford, Colo. Ent. C. 51, 15-16, 1926.  
Langford & Arbulnot, Colo. Ent. C. 51, 41-50, 1926.  
Larson, Iowa Agr. 24, 90, 1923.  
Linfield, Mont. R. 32, 26-28, 192, 1926.  
Linfield, Mont. R. 34, 90-91, 1927.  
Massee, Purdue Agr. 20, 210, 1926.  
ilhMohler, Kans. St. Bd. Agr. Quar. R. 48, 191, 221-225, 1929.  
Moore & Pepper, S. C. Ext. C. 84, 12, 1926.  
Newell, New Reclamation Era 19, 188-189, 1928.  
Palmer, Nat. Mag. 8, 159, 1926.  
Pollinger, Proc. Mont. Hort. Soc. 25, 44-45, 1927.  
Robertson, B. C. Dept. Agr. R. 19, K 26-K 27, 1925.  
Russell, Morrison & Ebling, Wis. B. 388, 67-69, 1926.  
ilSnapp, U. S. F. B. 1557, 31-32, 1928.  
Spuler, Wash. B. 196, 24, 1925.  
Warnock, B. C. Dept. Agr. R. 19, K 7, 1925.  
Watson, Fla. Dept. Agr. Quar. B. 39, 3, 49-50, 1929.  
Whitehead, Ida. Ext. B. 61, 1925, 10 p.
- Grasshoppers—Bacterial disease**  
Herrick, Rur. N. Y. 84, 1502, 1925.
- Grasshoppers—eggs**  
Langford, Colo. News Notes No. 856, March 27, 1926.  
McNabb, J. Morphol. & Physiol. 45, 47-77, 1928.
- Grasshoppers—Heat sensitive areas**  
bGeist, Ann. Ent. Soc. Amer. 21, 614-618, 1928.

**Grasshoppers—Parasites**

Skelthorne, Farm & Ranch Rev. 15; 22, 34, 1929.

**Grasshoppers—Poison**

Ayres, Miss. B. 227, 35-36, 1925.

Gillette, Colo. R. 38, 24, 1925.

Granovsky, J. Ec. Ent. 19, 211-218, '26.

Henderson, New Reclamation Era, 20, 173, 1929.

Langford, Colo. Ent. C. 47, 21-24, 1925.

Langford, J. Ec. Ent. 19, 670, 1926.

O. A. C., Farm. Advoc. 61, 1024, 1926.

Painter, Fluke & Granovsky, J. Ec. Ent. 18, 818-823, 1925.

iPettit, Mich. Ent. R. f, 1927, 5, 1927.

Pettit, Mich. Quar. B. 9, 144-147, 1927.

Pettit, Mich. St. Bd. Agr. R. 66, 341, 1928.

Scholl, Okla. Ext. News 6; 10, 1, 1925.

bSwenk, Neb. Res. B. 41, 1927, 44 p.

Webster, Wash. Farm. 54, 93, 1928.

**Grasshoppers—Sweep method vs. count**

Hoerner & Langford, J. Ec. Ent. 18, 519, 1925.

**Grasshoppers—Thoracic mechanism**

bSnodgrass, Smithson. Misc. Col. 82; 2, 1929, 111 p.

**Grasshoppers—Traps**

O'Kane, J. Ec. Ent. 21, 201-202, 1928.

**Grasshoppers & Postal revenue**

McColloch, J. Ec. Ent. 18, 751, 1925.

**Grasshoppers and sea gulls**

U. S. D. A. Official Record 3, 42, 3, 1924.

**Grasshoppers and temperature**

Parker, J. Ec. Ent. 19, 127-130, 1926.

bParker, Internat. Cong. Ent. 4, Tr. 2, 322-332, 1929.

Gray ash borer, *see* *Neoclytus conjunctus*

Gray-banded leaf roller, *see* *Eulia mariana*

\*Gray blister beetle, *see* *Epicauta cinerea*

Gray fungus, *see* *Ophionectria coccicola*

Gray garden slug, *see* *Agriolimax agrestis*

Greasy cutworm,\* Black cutworm, *see* *Agrotis ypsilon*

Great Basin tent caterpillar, *see* *Mala-cosoma fragilis*

Great spangled fritillary, *see* *Argynnis cybele*

\*Greedy scale, *see* *Aspidiotus rapax*

Green apple aphid, *see* *Aphis pomi*

Green apple leafhopper, *see* *Empoasca maligna*

Green bottle fly, *see* *Lucilia sericata*

\*Green bug, *see* *Toxoptera graminum*

Green clover tree hopper, *see* *Stictocephala inermis*

\*Green clover worm, *see* *Plathypena scabra*

Green currant aphid, *see* *Myzus dispar*

Green cutworm, *see* *Lycophotia infecta*

Green dock beetle, *see* *Gastroidea cyanea*

\*Green fruit worm *see*, *Xylina antennata*

Green gooseberry aphid, *see* *Aphis san-borni*

\*Green June beetle, *see* *Cotinis nitida*

Green oak tortrix, *see* *Tortrix viridana*

\*Green peach aphid, *see* *Myzus persicae*

\*Green shield scale, *see* *Pulvinaria psidii*

\*Green stinkbug, *see* *Acrosternum hilaris*

Green striped maple worm, *see* *Anisota rubicunda*

Green tunnel worm, *see* *Psilocorsis cryptolechiella*

Greenhouse centipede, *see* *Scutigera immaculata*

**Greenhouse heating**

Giblin, Flor. Exch. 59, 1901, 1927, 1925.

**Greenhouse insects**

Chambers, Wis. Hort. Soc. R. 55, 149-165, 1925.

Dahlgren, Iowa Hort. Soc. Trans. 60, 187-192, 1925.

Davis, Ind. Acad. Sci. Proc. 35, 317, '26.

Dean, Amer. Flor. 71: 42, 6, 13, 29, 1929.

Dean, Amer. Flor. 71: 44, 7, 9, 11, 12, 1929.

Dean, The Amer. Flor. 71: 47, 6, 21, '29.

Everett, Flor. Exch. 67, 273, 1928.

Flint & Compton, Flor. Exch. 70; 6, 45, 1929.

Gibbs, Minn. Hort. 53, 266, 1925.

Guyton, Penn. Dept. Agr. B. 413, 3-4, 1925.

ibHerrick & Griswold, N. Y. C. B. 474, 1929, 20p.

Lieber, Ind. Dept. Conserv. R. 7, 53-54, 1925; R. 8, 49-52, 1926; R. 9, 54-56, 1927. R. 10, 66-68, 1928.

Mann, N. Y. C. R. 42, 31, 1929.

iMetcalf & Flint, Dest. & usef. ins. 696-730, 1928.

iSeverin, So. Dak. Ent. R. 15, 10-63, 1924.

Wallace, Ind. Ent. R. 1927, 34-36.

Wallace, Ind. Dept. Conserv. R. 10, 55-59, 66-68, 1929.

- Greenhouse leaf tyer, *see* *Phlyctaenia fer-rugalis*
- Greenhouse orthezia, *see* *Orthezia insignis*
- Greenhouse sowbug, *see* *Armadillidium vulgare*
- \*Greenhouse stone cricket, *see* *Diestrammena japonica*
- \*Greenhouse thrips, *see* *Heliothrips haemorrhoidalis*
- \*Greenhouse whitefly, *see* *Trialeurodes vaporariorum*
- Gretchena semialba*  
nMcDunnough, Can. Ent. 57, 116, 1925.
- Greya augustella, punctiferella*  
inBlackmore, Can. Ent. 58, 294-296, 1926.
- Griburius montezuma*  
Beamer, Pan-Pac. Ent. 2, 209-210, 1926.  
Knaus, Ent. News 39, 7, 1928.
- Griphominettia* n. gen., *sumatrana*  
inMalloch, PUSNM 74; 6, 87-88, 1929.
- Griphoneura affinis* 77, *alboapicata* 76, *atricornis* 77, *imbuta* 77, spp.—key 76, *suffusa* 77.  
nMalloch, Proc. Biol. Soc. Wash. 38, 1925.
- Grisdalemyia* n. gen., *aldrichi*, *bigelowi*  
nCurran, Can. Ent. 58, 133-135, 1926.
- Gronocarus* n. gen., *autumnalis*  
nSchaeffer, Bklyn. Ent. Soc. B. 22, 213-15, 1927.
- Ground beetles—Assembly of  
Sherman, Ent. News 39, 24, 1928.
- Grouse locust, *see* *Apotettix eurycephalus*, *Paratettix texanus*
- Grub-proofing turf for *Popillia japonica*  
iLeach & Lipp, U. S. Golf Assoc. Green Sec. B. 6, 34-39, 191-192, 1926.
- Grubs—Earthworms and rich soil  
— U. S. Golf Assoc. Green. Sec. B. 6, 16, 1926.
- Gryllidae**  
niHebard, Trans. Amer. Ent. Soc. 54, 79-124, 233-294, 1928.  
iHungerford, Kans. St. Bd. Agr. Bien. R. 24, 102, 1924.
- Grylloblatta campodeiformis*  
iFord, Can. Ent. 58, 66-70, 1926.
- Grylloblatta* spp.  
iThone, Sci. News Let. 15, 209-212, 1929.
- Grylloblattaria campodeiformis*  
Buckell, Proc. Ent. Soc. B. C. 22, 35, '25.
- Grylloblattidae**  
biCrampton, Psyche 33, 78-85, 1926.
- iCrampton, Pan-Pac. Ent. 3, 115-135, 1927.
- Imms, Psyche 34, 36 39, 1927.
- Gryllotalpa africana*  
Pemberton, La. Plant & Sugar Mfg. Co. Ref. Bk. Sugar Indus. of World, 5; 5, 44, 1927.
- Gryllotalpa borealis*  
Brooks et al, Fla. B. 204, 519, 1929.
- Gryllus abbreviatus*  
iFernald, Applied Ent. ed. 2, 88, 1926.
- Gryllus assimilis* (Field cricket)\*  
Adams, S. Dak. R. 41, 16-17, 1929.  
Allard, Can. Ent. 61, 196, 1929.  
iBrownell, Nat. Mag. 8, 77, 1926.  
iGibson & Twinn, Can. Dept. Agr. B. 112, 43-45, 1929.  
iHarrison, Miss. St. Plt. Bd. Quar. B. 7, 3, 4-6, 1927.  
Hebard, Trans. Amer. Ent. Soc. 51, 306-307, 1925.  
McGregor, U. S. D. A. C. 75, 1929, 8p.  
Savin, Ent. News 38, 4-10, 33-39, 1927.  
Severin, S. D. R. f. 1924, 22-23.  
Severin, J. Ec. Ent. 19, 218-227, 1926.  
Severin, S. D. R. f. 1925, 23-24.  
Severin, S. D. R. f. 1926, 19-21.  
iWatson, Fla. Dept. Agr. Quar. B. 39; 3, 128-129, 1929.  
Webster, No. Dak. B. 194, 59, 1926.  
Wilson, S. D. R. f. 1927, 15.  
Wilson, S. D. R. f. 1928, 16-17.
- Gryllus domesticus* (House cricket)\*  
iGibson & Twinn, Can. Dept. Agr. B. 112, 43-45, 1929.  
iGuyton, Pa. Dept. Agr. Gen. B. 432, 12, 1927.  
Hood, Proc. Ent. Soc. Wash. 29, 22, '27.
- Gryllus luctuosus, pennsylvanicus*  
Criddle, Can. Ent. 57, 80, 1925.
- Gryllus* spp.  
Criddle, Can. Ent. 57, 79-84, 1925.  
Lutz, J. N. Y. Ent. Soc. 35, 307-308, '27.
- Guava whitefly, *see* *Trialeurodes floricidensis*
- Guayaquila maxima*  
nGoding, J. N. Y. Ent. Soc. 36, 43, 1928.
- Guayaquila olseni*  
nGoding, J. N. Y. Ent. Soc. 37, 12, 1929.
- Guayaquila sulfureus, vexator*  
Goding, J. N. Y. Ent. Soc. 35, 43-44, 1928.

- Guerin—Meneville's Types of Hemiptera  
Hungerford, Pan-Pac. Ent. 6, 73-77, '29.
- Gymnandrosoma desotatum, spp.—key  
nHeinrich, U. S. N. M. B. 132, 72-73, '26.
- Gymnetron sp.  
Champlain & Knull, Can. Ent. 57, 114, 1925.
- Gymnochaeta ruficornis, viridis  
Aldrich, Ins. Insc. Men. 14, 54-55, 1926.
- Gymnodexia bigelowi  
nCurran, Can. Ent. 58, 88, 1926.
- Gymnodexia decisa 7-8, interrupta 8, lateralis 6-7, versicolor 7, villeneuvei 5-6; nCurran, Amer. Mus. Nov. 246, 1927.
- Gymnogaster gen.  
nTownsend, Ins. Insc. Mens. 14, 25-26, '26.
- Gymnomma diaphanoides  
nCurran, Amer. Mus. Novit. 176, 10, '25.
- Gymnonerius dimidiatus  
nCresson, Trans. Amer. Ent. Soc. 52, 259-260, 1926.
- Gymnopa beckeri  
nCresson, Trans. Amer. Ent. Soc. 51, 231-232, 1925.
- Gymnopa bidentata  
nCresson, Trans. Amer. Ent. Soc. 52, 249, 1926.
- Gymnopa dentifemur, grandis  
nCresson, Trans. Amer. Ent. Soc. 51, 232-234, 1925.
- Gymnoprotopa gen. 95-96, argentifrons 98-100, filipalpus 100-101, inflaticornis 102-103, pallida 101-102, polita 96-98, spp.—key 96.  
Allen, P. U. S. N. M. 68, art. 9, 1926.
- Gymnopternus Loew  
Van Duzee, Psyche 32, 186-187, 1925.
- Gymnopternus annulatus  
nVanDuzee, Can. Ent. 58, 58, 1926.
- Gymnopternus flavitarsis  
nVanDuzee, Psyche 32, 187-188, 1925.
- Gymnopternus lividifrons  
nVanDuzee, Can. Ent. 58, 58-59, 1926.
- Gymnopternus maculiventris, robustus  
nVanDuzee, Psyche 32, 188-189, 1925.
- Gymnopternus tenuicauda, tibialis  
nVanDuzee, Pan-Pac. Ent. 5, 88-89, '28.
- Gymnosoma dubia  
nWest, J. N. Y. Ent. Soc. 33, 121-122, '25.
- Gymnosoma occidentale  
nCurran, Bklyn. Ent. Soc. B. 22, 144-145, 1927.
- Gynaecomeloe parvicollis  
nVanDyke, Cal. Univ. Pub. Ent. 4, 450-451, 1928.
- Gynaikothrips orchidis  
nMoulton, Bklyn. Ent. Soc. B. 22, 200-201, 1927.
- Gynoplistia (Paralimnophila) pachyspila  
nAlexander, Ann. Ent. Soc. Amer. 21, 639-640, 1928.
- Gypona  
iBall & Reeves, Ann. Ent. Soc. Amer. 20, 488-502, 1927.
- Gypona albimaculata, cubana  
nOsborn, Ann. Ent. Soc. Amer. 19, 341-342, 1926.
- Gypona octolineata  
Dobrosky, Am. Cranberry Assoc. Proc. 58, 7, 1928.
- Gyponana chadana  
nBell & Reeves, Ann. Ent. Soc. Amer. 20, 493, 1927.
- \*Gypsy moth, see Porthetria dispar
- Gyretes cubensis, distinguendus  
Ochs, Amer. Mus. Novit. 125, 6-7, 1924.
- Gyretes globosus, lucidus  
nOchs, Ann. Carnegie Mus. 19; 2, 128-130, 1929.
- Gyretes morio  
Ochs, Amer. Mus. Novit. 125, 6, 1924.
- Gyretes multisetosus  
Ochs, Ann. Carnegie Mus. 19; 2, 130, 1929.
- Gyretes villosomarginatus, vulneratus  
Ochs, Amer. Mus. Novit. 125, 7-8, 1924.
- Gyrinidae  
bBrown & Hatch, J. Compar. Psychol. 9, 159-189, 1929.  
bHatch, Bklyn. Ent. Soc. B. 20, 101-114, 1925; B. 22, 89-96, 1927.  
bHatch, Mich. Acad. Sci. Papers, 5, 429-467, 1926; 7, 311-350, 1927.  
Ochs, Amer. Mus. Novit. 125, 1924, 8p.  
Ochs, Philippine J. Sci. 24, 81-86, 31; 343-344, Ja. 1924N 1926.  
Ochs, Ann. Carnegie Mus. 19; 2, 123-134, 1929.  
Ochs, PUSNM 75; 3, 1929, 6 p.



- Habrobracon brevicornis**  
 iGenieys, Ann. Ent. Soc. Amer. 18, 143-202, 1925.  
 Holloway, Planter & Sugar Mfg. 80, 241, 1928.  
 McLaine, Ont. Ent. Soc. R. 57, 22, 1927.  
 iPettit, Mich. C. B. 70, 8, 1925.
- Habrobracon erucarum**  
 Snow, J. Ec. Ent. 18, 607, 1925.
- Habrobracon juglandis**  
 iWhiting, Genetics 10, 33-58, 1925.  
 biWhiting, Amer. Nat. 60, 443-454, 1926.  
 bWhiting & Burton, Amer. Nat. 60, 285-290, 1926.  
 iWhiting & Whiting, Amer. Nat. 62, 479, 1928.
- Habrobracon juglandis**—X-Ray, Effect on  
 iWhiting, J. Heredity 20, 269-276, 1929.
- Habrobracon sp.**—Hereditary variations.  
 bWhiting, Biol. B. 51, 371-383, 1926.  
 Whiting, Biol. B. 54, 289-305, 1928.
- Habrobracon sp.**—Mutations  
 Whiting, Science 68, 59, 1928.
- Habrobracon sp.**—Variable characters.  
 Whiting, Genetics 11, 305-316, 1926.
- Habrocarabus latus**  
 Burgess & Crossman, U. S. Tech. B. 86, 119, 1929.
- Habrocytus brittanicus**  
 nGirault, Ins. Insc. Mens. 14, 132, 1926.
- Habrocytus dux**  
 bMuesebeck & Dohanian, U. S. D. A. B. 1487, 27-28, 1927.
- Habromastix lemniscata**  
 nAlexander, J. N. Y. Ent. Soc. 37, 92-93, 1929.
- Habromyia flavifacies**  
 nShannon, PUSNM 70; 9, 15-16, 1927.
- Habropimpla anthereae**  
 Girault, Ins. Insc. Mens. 13, 39, 1925.
- Hackberry nipple gall**, *see* *Pachypsylla celtidimamma*.
- Hadena arctica** (Yellow-headed cutworm)  
 Eyer & McCubbin, Pa. Dept. Agr. Gen. B. 433, 13, 1926.
- Hadena fractilinea**, *see* *Oligia fractilinea*
- Hadronotus atriscapus**  
 nGahan, PUSNM 71; 4, 37-38, 1928.
- Hadronotus hirsutioculus**  
 Girault, Ins. Insc. Mens. 14, 138, 1926.
- Hadronotus variicornis**  
 nPouts, Proc. Ent. Soc. Wash. 27, 149-150, 1925.
- Hadrurus hirsutus**—n. var.  
 nEwing, P. U. S. N. M. 73; 9, 8-9, 1928.
- Haemagogus (Haemagogus) celeste**  
 nDyar & Tovar, Ins. Insc. Mens. 14, 152, 1927.
- Haemagogus spp.**—Key  
 Dyar, Insec. Ins. Mens. 13, 137, 1925.
- Haemaphysalis chordeilis** (Bird tick)  
 Miller, Ohio B. 386, 128, 1925.
- Haemaphysalis leporis-palustris**  
 Bruce, Proc. Ent. Soc. B. C. 24, 28, 1927.  
 Larrousse, et al., Science 67, 351-353, '28.  
 Miller, Ohio B. 386, 128, 1925.  
 Parker, Mont. St. Bd. Ent. Bien. R. 7, 42-44, 1928.  
 Parker, J. Am. Med. Assoc. 93; 1229, 1929.  
 Parker, U. S. Pub. Health R. 44, 999-1000, 1929.  
 Parker & Dade, Amer. Vet. Med. Assoc. J. 75: 174, 1929.  
 Rawson, J. Am. Vet. Med. Assoc. 74: 7, 1029, 1929.
- Haematobia irritans** (Horn fly)\*  
 Haseman, Mo. B. 254, 1927, 10p.  
 Haseman, Mo. Farm. 21, 319, 1929.  
 Smyth, Porto Rico Rio Piedras C. 39, 1921, 17p.
- Haematopinus asini** (Sucking horse louse)  
 iImes, U. S. F. B. 1493, 1-5, 1926.  
 iShillinger, Vet. Med. 22, 402, 1927.
- Haematopinus eurysternus** (Short-nosed ox louse)  
 iBrittain, N. S. Dept. Nat. Resource B. 12, 110-111, 1927.  
 Guyton, Ala. R. 25, 15, 1924 (1928?).  
 Guyton, Ala. R. 26, 14, 1925 (1928r).
- Haematopinus ovillus**  
 Imes, U. S. D. A. Leaf. 13, 1928, 8p.  
 Stevenson, Ont. Dept. Agr. B. 337, 25-26, 1928.
- Haematopinus suis** (Hog louse)\*  
 Esser, Amer. Agr. 115, 396, 1925.  
 Hall, Kans. Ent. Soc. J. 2: 79-80, 1929.  
 iShillinger, Vet. Med. 22, 403, 1927.  
 Stevenson, Ont. Dept. Agr. B. 340, 16-18, 1928.  
 Weaver, S. Dak. Ext. C. 237, 1-7, 1926.

- Haematopinus urius**  
iBrittain, N. S. Dept. Nat. Resource B.  
12, 111-112, 1927.
- Haematosiphon inodorus (Poultry bug)\***  
Blatchley, Fla. Ent. 12, 43-44, 1928.
- Haemodipsus setoni**  
nEwing, Am. J. Trop. Med. 4, 548, 1924.
- Haemodipsus ventricosus**  
Rawson, J. Am. Vet. Med. Assoc. 74:  
7, 1029, 1929.
- iSchwartz and Shook, U. S. D. A. FB  
1568, 9-10, 1928.
- Haemogamasus alaskensis** 138-139, bar-  
beri 140-141, liponyssoides 139-140,  
nicroti 141-142, reidi 140, twitchelli  
142-143.  
nEwing, Proc. Biol. Soc. Wash. 38, '25.
- Haemonia** gen. 54, nigricornis 54-55,  
species, Synonymy 159.  
Schaeffer, Bklyn. Mus. Sci. B. 3, 1925.
- \*Hag moth, see** Phobetron pithecium
- Hagenulopsis** gen.  
Needham & Murphy, Lloyd Lib. B. 24,  
43-44, 1924.
- Haimbachia discalis, maroniella**  
niDyar & Heinrich, P. U. S. N. M. 71,  
Art. 19, 36-37, 1928.
- Hairy goat louse, see** Trichodectes hermsi
- Halecia** spp.—Key  
Fisher, PUSNM 65; 9, 79, 1925.
- Halesus dan**  
nSibley, J. N. Y. Ent. Soc. 34; 1, 81, '26.
- Halictoides holocyaneus, spilurus**  
nCockerell, Proc. Cal. Acad. Sci. Ser. 4,  
14; 11, 199-201, 1925.
- Halictomyia** n. gen., boliviensis  
nShannon, P. U. S. N. M. 70; 9, 13, '27.
- Halictus** spp.  
nCockerell, Proc. Cal. Acad. Sci. Ser. 4,  
14; 11, 188-190, 1925.  
nCockerell, Psyche 35, 178-180, 1928.  
nCockerell, Amer. Mus. Novit. 346, 2-14, '29.  
nCockerell, PUSNM 68; 6, 2-12, 1925.
- Halictus (Chloralictus) zephyrus**  
Rau, St. Louis Acad. Sci. Tr. 25, 182-184, '27.
- Halisidota argentata**  
Baker, West. Wash. B. 10-W, n.s., 16, '28.
- Halisidota caryae (Hickory tussock  
moth)\***  
iBritton & Zappe, Conn. B. 292, 122, '27.
- Peirson, Me. For. Serv. B. 5, 71, 1927.
- iSwaine & Hutchings, Can. Dept. Agr.  
Ent. B. 28, 23, 1926.
- Halisidota mailula, pholi, ranona**  
nSchaus, Proc. Ent. Soc. Wash. 29, 75-  
76, 1927.
- Halisidota tessellaris (Pale tussock moth)\***  
Britton & Zappe, Conn. B. 292, 122, '27.  
Peirson, Me. For. Serv. B. 5, 92, 1927.
- Halitchella rhyacioniae**  
nGahan, J. Agr. Res. 34, 545-546, 1927.
- Halobates robustus**  
niBarber, Zoologica N. Y. 5, 253, 1925.
- Haltica, see also** Altica
- Haltica bimarginata**  
Peirson, Me. For. Serv. B. 5, 23, 1927.  
Van Dyke, Pan-Pac. Ent. 2, 46, 1925.  
ibWoods, Bklyn. Ent. Soc. B. 24, 116-123, '29.
- Haltica brisleyi**  
nHebard, Trans. Amer. Ent. Soc. 54,  
59-61, 1928.
- Haltica canadensis**  
nGentner, Can. Ent. 58, 149-151, 1926.
- Haltica, chalybea (Grape flea beetle)\***  
iCaesar, Ont. B. 325, 44-45, 1927.  
1-hEyer & McCubbin, Pa. Dept. Agr.  
Gen. B. 433, 12-13, 1926.  
G., F. E., Rur. N. Y. 85, 675, 1926.  
Gladwin, Rural N. Y. 87, 643, 1928.  
Ross, Ont. Ent. Soc. R. 56, 58, 1925.  
Ross, Farm. Advoc. 60, 417, 1925.  
Zappe, Conn. B. 305, 729, 1929.
- Haltica elongata**  
nGentner, Can. Ent. 58, 151-152, 1926.
- Haltica foliacea**  
Call, Kans. R. f. 1926-28, 72-73.  
Dean, Kan. Ent. Com. Bien. R. 10, 31, '27.
- Haltica ignita (Strawberry flea beetle)\***  
Brooks et al, Fla. B. 204, 521-522, '29.  
Scholl & Stephens, Tex. Dept. Agr. B.  
84, 17, 1925.  
iWatson, Fla. Dept. Agr. Quar. B. 39:  
3, 65-66, 128, 1929.
- Haltica litigata**  
iSmith, La. Ext. C. 113: 24-27, 1928.
- Haltica nigra**  
nGentner, Trans. Amer. Ent. Soc. 54,  
61-62, 1928.
- Haltica oblitterata**  
Brisley, Trans. Amer. Ent. Soc. 51, 176, '25.

- Haltica** (or **Altica**) **ulmi**  
 — Conn. B. 265, 338, 1925.
- Haltica** **vitiosa**  
 nBlatchley, Can. Ent. 60, 71-72, 1928.
- Haltichella** **rhyacioniae**  
 nGahan, J. Agr. Res. 34, 545-546, 1927.
- Haltichella** **xanticles**  
 bMuesebeck & Dohanian, U. S. D. A.  
 B. 1487, 18-19, 1927.
- Halticidea** **placida**  
 Brisley, Trans. Amer. Ent. Soc. 51, 175,  
 1925.
- Halticinae**  
 iBoving, Proc. Ent. Soc. Wash. 29, 183-  
 205, 1927.  
 Gentner, Trans. Amer. Ent. Soc. 54,  
 57-67, 1928.
- Halticotoma** **cornifer, nicholi**  
 nKnight, Brklyn, Ent. Soc. B. 23: 241,  
 242, 1928.
- Halticus** **citri** (Garden flea hopper)\*  
 Morrill, J. Ec. Ent. 18, 713, 1925.  
 Morrill, Cal. Dept. Agr. Sp. Pub. 73, 74,  
 1927.  
 iWatson, Fla. Dept. Agr. Quar. B. 39;  
 3; 83, 1929.
- Halticus** (**Choraliectus**) **zephyrus**  
 Rau, St. Louis Acad. Sci. Tr. 25, 182,  
 1927.
- Hamamelistes** **spinosus**  
 Felt, N. Y. St. Mus. B. 267, 43, 1926.  
 bLutz & Brown, Amer. Mus. Novit. 305,  
 1928, 4p.
- Hamletia** **dimidiaticornis**  
 Blatchley, Can. Ent. 57, 167, 1925.
- Hamophthirus** **galeopitheci**  
 niMjoberg, Psyche 32, 283-284, 1925.
- Hanseniella** **unguiculata**  
 Rands, Sugar B. 4; 18, 3, 1926.
- Hapigia** **apiana**  
 nSchaus, P. U. S. N. M. 73; 19, 68, 1928.
- Hapigia** **beuvea** 68-69, **duponti** 66, **eneana**  
 68, **hollandia** 67, **millsi** 69, **smerin-**  
**thina** 67-68. nSchaus, P. U. S. N. M.  
 73; 19, 1928.
- Hapigiodes** **argentidiscata**  
 nSchaus, PUSNM 73; 19, 70-71, 1928.
- Hapliothrips** **ryani**  
 nMoulton, Pan-Pac. Ent. 5, 131-132, '29.
- Haplophthalmus** **danicus**  
 Walker, Can. Field Nat. 42, 46-47, '28.
- Haploptilia** **albovanescens**—New York  
 nHeinrich, Proc. Ent. Soc. Wash. 28, 52,  
 1926.
- Haploptilia** **annulicola**  
 nBraun, Trans. Amer. Ent. Soc. 51, 207-  
 209, 1925.
- Haploptilia** **caryaefoliella** (Pecan cigar  
 case bearer)  
 iLeiby, N. C. Dept. Agr. B., Feb. 1925,  
 24-26.
- Haploptilia** **comptoniella**  
 nMcDunnough, Can. Ent. 58, 218, 1926.
- Haploptilia** **fletcherella** (Cigar case bear-  
 er)\*  
 iBrittain, N. S. Dept. Nat. Resource B.  
 12, 34-35, 1927.  
 4Crosby, et al, N. Y. C. B. 498, 20, 1929.  
 Needham, Frost, & Tothill, Leaf-mining  
 insects, 1928, 147-150.  
 Petch & Armstrong, Quebec Soc. Protec.  
 Plants R. 17, 76, 1925.  
 Spittall, Proc. Acadian Ent. Soc. 10, 63,  
 1925.
- Haploptilia** **innotabilis**  
 nBraun, Can. Ent. 59, 56, 1927.
- Haploptilia** **laricella** (Larch case bearer)\*  
 Bailey, Comm. Agr. Vt. Bien. R. 13, 51-  
 52, 1926.  
 Britton, Nat. Shade Tree Cong. R. 5, 68,  
 1929.  
 Britton & Zappe, Conn. B. 292, 142-  
 143, 1927.  
 Herriek, Proc. Nat'l. Shade Tree Conf.  
 5, 67-68, 1929.  
 Hutchings, Quebec Soc. Protec. Pl. R.  
 18, 115, 1925-1926.
- Haploptilia** **limosipennella** (Elm case  
 bearer)\*  
 Felt, J. Ec. Ent. 20, 67, 1927.  
 Peirson, Me. For. Serv. B. 5, 55-56, '27.
- Haploptilia** **malivorella** (Pistol case bear-  
 er)\*  
 Crosby, et al, N. Y. C. B. 498, 20, 1929.
- Haploptilia** **piperata**  
 Braun, Trans. Amer. Ent. Soc. 51, 206-  
 207, 1925.

- Haploptilia pruniella**  
 biPetch & Armstrong, Quebec Soc. Protec. Pl. R. 18, 93-95, 1925-1926.
- Haploptilia sacramenta**  
 ibEssig, Insects of Western No. Amer. 1926, 745.
- Haploptilia salmani**  
 nHeinrich, Wash. Ent. Soc. Proc. 31, 18, 1929.  
 Salman, Ann. Ent. Soc. Amer. 22: 480-488, 1929.
- Haploptilia sparsipuncta**  
 nHeinrich, Wash. Ent. Soc. Proc. 31, 18-19, 1929.
- Haplosoma melanocephalum**  
 nBowditch, Psyche 32, 246, 1925.
- Haplosomyx frenbi, humeralis, monticola**  
 nBowditch, Psyche 32, 245-246, 1925.
- Haplothrips abyssianae**  
 nBratley, Fla. Ent. 10, 28-29, 1926.
- Haplothrips distalis**  
 nHood, Ent. News 36, 103-105, 1925.
- Haplothrips fasciculatus**  
 Hood, Pan-Pacific Ent. 3, 174-175, 1927.
- Haplothrips (Chonothrips) gaviotae**  
 nMoulton, Pan-Pac. Ent. 5, 132-133, 1929.
- Haplothrips purpuratus**  
 nHood, Ent. News 36, 101-103, 1925.
- Haplothrips rectipennis**  
 niHood, Proc. Ent. Soc. Wash. 29, 112-113, 1927.
- Haplothrips shackelfordi**  
 nMoulton, Brklyn Ent. Soc. B, 22, 197-198, 1927.
- \***Harlequin bug**, *see* **Murgantia histrionica**
- Harmolita**, *see also* **Isosoma**
- Harmolita elymophaga**  
 niPhillips, Proc. Ent. Soc. Wash. 29, 127-128, 1927.
- Harmolita grandis**, *see* **Isosoma grandis**
- Harmolita kingi**  
 niPhillips, Proc. Ent. Soc. Wash. 29, 128-129, 1927.
- Harmolita maculata**  
 Phillips & Poos, J. Agr. Res. 34, 483-488, 1927.
- Harmologa fumiferana** (Spruce bud-worm)\*  
 Britton & Zappe, Conn. B. 292, 162-163, 1927.
- Craighead, New Brunswick Crown Lands Dept. R. 62, 82, 1923.
- iGibson, Roy. Soc. Canada, Proc. & Tr. 3 ser. 19, sec. 5, 195-206, 1925.
- Goodfellow, Can. Lumberman, 47, 5, 53, 1927.
- bGraham, Mich. Acad. Sci. Papers, 9, 517-523, 1928.
- Perry, Journal Forestry 23, 410-413, '25.
- iPettit, Mich. Ent. R. f. 1927, 15-17, '27.
- iPettit, Mich. St. Bd. Agr. R. 66, 351-353, 1928.
- Harmostes disjunctus**  
 nBarber, Zoologica, N. Y. 5, 241, 1925.
- Harpagoxenus americanus**  
 iCreighton, Psyche 34, 11-29, 1927.  
 bCreighton, Psyche 36, 48-50, 1929.  
 bSturtevant, Psyche 34, 1-9, 1927.
- Harpalus martini, pacificus, washing-toniensis**; nVan Dyke, Pan-Pacific Ent. 2, 123-125, 136-137, 1926.
- Harpiphorus maculatus**, *see* **Empria maculata**
- Harpiteryx xylostella**  
 Johnson, Psyche 34, 176-177, 1927.
- Harris, Moses**  
 iWeiss, Scientific Mon. 23, 560-564, '26.
- Hartigia cressoni**  
 ibEssig, Insects of Western No. Amer. 1926, 775-776.
- Hartley, Edwin A.**—Obituary  
 Osborn, J. Ec. Ent. 19, 876-877, 1926.
- Haruspex defectus**  
 niCockerell, Amer. J. Sci. 11; 66, 503, 504, 1926.
- Harvest fly**, *see* **Tibicen linnei**.
- Hawaiian beet webworm**, *see* **Hymenia fascialis**.
- Hawaiian melon fly**, *see* **Chaetodacus cucurbitae**
- Hawaiian sugarcane borer**, *see* **Rhabdocnemis obscura**.
- Hawkweed aphid**, *see* **Anuraphis helichrysi**
- \***Head louse**, *see* **Pediculus humanus**.
- Hecanede**  
 Cresson, Trans. Amer. Ent. Soc. 51, 229, 1925.
- Hecanedoides aurigera** 168, **caprina** 168-169, **costata** 167-168, **hyalinis** 169, **invida** 169-170.  
 nCresson, Trans. Amer. Ent. Soc. 55, '29.

- Hectopsylla suarezi**  
nFox, Ent. News, 40, 218, 1929.
- Hedia spp.—key**  
Heinrich, U.S.N.M.B. 132, 162, 1926.
- Hedulia, n. gen., injectiva**  
iHeinrich, U.S.N.M.B. 132, 65, 1926.
- Heel-fly, \*Common cattle grub, see Hypoderma lineata**
- Heleomyzidae n. gen.—Chile**  
Aldrich, Ins. Insc. Mens. 14, 96-102, '26.
- Heleria rubidella**  
Yothers, et al, J. Ec. Ent. 22, 269, 1929.
- \*Helgramite, see Corydalis cornuta**
- Helicobia helicis**  
Greene, PUSNM 66: 29, 16, 1925.  
Johnson, Psyche 36, 106, 1929.
- Heliconius doris, insolitus**  
niAvinoff, Annals Carnegie Mus. 16, 365, '26.
- Heliocontia margana**  
Bottimer, J. Agr. Res. 33, 799, 1926.
- Heliophobus procincta—B. C.**  
Hearle, Ont. Ent. Soc. R. 59, 32-33, '29.
- Heliothis cystiphora**  
Crumb, PUSNM 68; 16, 7, 1926.
- Heliothis dipsacea**  
Walker, Psyche 35, 29-30, 1928.
- Heliothis obsoleta, see Chloridea obsoleta**
- Heliothis phloxiphaga**  
Crumb, PUSNM 68; 16, 5-6, 1926.
- Heliothis spp.**  
iCrumb, PUSNM 68; 16, 1926, 8 p.
- Heliothis virescens (Tobacco bud worm)**  
Bottimer, J. Agr. Res. 33, 798, 1926.  
Chamberlin, J. Ec. Ent. 19, 191, 1926.  
Chamberlin & Tenhet, J. Ec. Ent. 19, 611-614, 1926.  
Crumb, PUSNM 68; 16, 4-5, 1926.  
iMorgan, USDA FB 1531, 1927, 9 p.  
iTisdale & Kelley, Fla. B. 182, 279-286, 1926.
- Heliothrips bishoppi**  
nMoulton, Bklyn. Ent. Soc. B. 24, 229-230, 1929.
- Heliothrips braziliensis**  
nMorgan, Proc. Ent. Wash. Soc. 31, 7-8, 1929.
- Heliothrips bromi**  
nMoulton, Pan-Pacific Ent. 4, 31-32, '27.
- Heliothrips bruneri**  
nMorgan, Proc. Ent. Wash. Soc. 31, 8-9, 1929.
- Heliothrips fasciatus (Bean thrips)**  
Jacobsen, Cal. Dept. Agr. Mo. B. 16: 657, 1927.  
Lewis, Cal. Cult. 72, 352-353, 1929.  
iLewis, Blue Anchor 6: 4, 8-9, 23, 25-26, 1929.  
iiLewis, Cal. Dept. Agr. Mo. 18: 1; 52-58, 1929.  
Morrill, J. Ec. Ent. 18, 714, 1925.
- Heliothrips femoralis**  
bEssig, Insects of Western No. Amer. 1926, 184.
- Heliothrips gossypii**  
nMoulton, Pan-Pacific Ent. 4, 32-34, '27.
- Heliothrips haemorrhoidalis (Greenhouse thrips)\***  
Beaulne, Quebec. Soc. Protec. Pl. R. 20: 85-86, 1928.  
Coit, Cal. Avocado Assoc. Yrbk. '29, 130.  
Felt, N. Y. St. Mus. B. 274, 174, 1928.  
Hartzel, Gard. & Home Bldg. 46, 469, 1928.  
iMoulton, Cal. Dept. Agr. B. 17, 366-367, 1928.  
Ryan, Cal. Agr. Mo. B. 16, 36, 1927.  
Severin, So. Dak. Ent. R. 15, 41, 1925.  
Smith, Cal. Avocado Assoc. Yrbk. '29, 130.
- Heliria clitella 201-202, cornutula 201, fitchi 202, gemma 202-203, gibberata 200-201.**  
nBall, J. Wash. Acad. Sci. 15, 1925.
- Helius creper**  
nAlexander, J.N.Y. Ent. Soc. 34, 224, '26.
- Helius quadrididus**  
nAlexander, Ann. Ent. Soc. Amer. 19, 161, 1926.
- Helix pisana**  
ibBasinger, Cal. Agr. Mo. B. 16, 51-76, 1927.
- Hellula undalis (Cabbage webworm)\***  
Langford, S. Dak. St. Hort. Soc. R. 22, 260, 1925.  
MacLeod, Penn. St. Ext. C. 122; 23, '29.  
Robinson, Ala. R. 26, 13, 1925 (1928?).  
Robinson, Ala. R. 37, 21, 1926.
- Helmis ampliatus 179, brunnescens 177, castanipennis 177, dispar 180.**  
nFall, J. N. Y. Ent. Soc. 33, 1925.

- Helmis filiformis**  
nDarlington, Psyche 34, 94-95, 1927.
- Helmis immunis**  
nFall, J. N. Y. Ent. Soc. 33, 178, 1925.
- Helmis koebelei**  
nMartin, Pan-Pac. Ent. 4: 2; 68, 1927.
- Helmis minima** 93-94, **quadrata** 95-96, **simplex** 96-97, **thermarum** 5-6.  
nDarlington, Psyche 35, 1928.
- Helocharae**—Key  
Winters, Pan-Pacific Ent. 4, 19-29, 1927.
- Helophilus** and allied genera—Revision  
iCurran & Fluke, Wis. Acad. Sci. Tr. 22, 207-281, 1926.
- Helophilus borealis** 214-216, **fasciatus** 220-223, **groenlandicus** 212-214, **hybridus** 225-227, **intentus** 223-225, **latifrons** 216-219, **obscurus** 228-229, **spp.**—key 211-212; Curran & Fluke, Wis. Acad. Sci. Tr. 22, 1926.
- Helophilus stricklandi**  
nCurran, Can. Ent. 59, 90, 1927.
- Helophilus trivittata**  
Curran & Fluke, Wis. Acad. Sci. Tr. 22, 219-220, 1926.
- Helophorus aquaticus**—America  
Darlington, Psyche 34, 174-175, 1927.
- Helops benitensia**  
nBlaisdell, Proc. Cal. Acad. Sci. ser. 4, 14; 14, 339, 1925.
- Helvibis keyserlingi**  
niBanks, B. Harvard Mus. Comp. Zool. 69, 87, 1929.
- Hemadas nubilipennis**  
Beckwith and Driggers, N. J. R. f. 1926-27, 141, 1928.  
Doak, Ind. Acad. Sci. Proc. 43, 443, 1928.  
Driggers, J. N. Y. Ent. Soc. 35, 253-259, 1927.
- Hemaris diffinis**  
Barnes & Benjamin, S. Cal. Acad. Sci. B. 26: 2, 51, 1927.
- Hemaspidoproctus**—n. gen.  
nMorrison, Proc. Biol. Soc. Wash. 40, 104-105, 1927.
- Hemerobius** sp. (Trash bugs)  
Watson, Fla. B. 183, 308, 1926.
- Hemerocampa leucostigma** (White-marked tussock moth)\*  
iBrittain, N. S. Dept. Nat. Resource B. 12, 35, 1927.  
iBritton & Zappe, Conn. B. 292, 121-122, 1927.  
iChamplain, Nat. Mag. 9, 227-228, 1927.  
Fernald, Applied Ent. ed. 2, 263-265, '26.  
iHerrick, Rur. N. Y. 88, 672, 1929.  
Hutchings, Quebec Soc. Protec. Pl. R. 18, 115, 1925-1926.  
Keen, Timberman, 30; 11, 108, 1929.  
Lieber, Ind. Dept. Conserv. R. 8, 44-45, 1926; R. 9, 47, 1927.  
bPayne, Ann. Ent. Soc. Amer. 22, 616-620, 1929.  
Peirson, Me. For. Serv. B. 5, 55, 1927.  
Spittall, Proc. Acadian Ent. Soc. 10, 71-72, 1925.  
Spittall, Ont. Ent. Soc. R. 58, 15, 1928.  
iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 19-22, 1926.
- Hemerocampa vetusta**  
iEssig, Insects of Western No. Amer. 1926, 692-693.
- Hemerophila pallida**  
i—Ont. Agr. Col. Rep. 42, 137, 1929.
- Hemerophila pariana** (Apple and thorn skeletonizer)\*  
Bailey, Vt. Comm. Agr. Bien. R. 58-59, 1926.  
Britton, Conn. Bul. Immed. Inf. 26, 1923, 1 p.  
Britton, Conn. Bul. Immed. Inf. 39, 1924, 2 p.  
iBritton and Zappe, Conn. B. 292, 126, 1927.  
Crosby, et al, N. Y. C. B. 498, 42, 1929.  
Felt, N. Y. St. Hort. Soc. Proc. 70, 58, 1925.  
Felt, N. Y. St. Mus. B. 260, 47-48, 1925.  
Felt, N. Y. St. Mus. B. 267, 40, 1926.  
Felt, J. Ec. Ent. 20, 65-66, 1927.  
Felt, N. Y. St. Mus. B. 274, 145-147, 1928.  
Felt, N. Y. St. Hort. Soc. Proc. 73, 17-18, 1928.  
Guyton, J. Ec. Ent. 19, 812, 1926.  
Hadley, J. Ec. Ent. 20, 708, 1927.  
Herrick, N. Y. St. Hort. Soc. Proc. 74, 5-6, 1929.  
Parrott, Amer. Fruit Grow. Mag. 49:3, 11, 1929.  
Schott, J. N. Y. Ent. Soc. 33, 53, 1925.

**Hemerophila pariana**—Wind drift

iFelt, Tree Talk 7:2, 8-10, 1926.

**Hemibryomima**—new genusnBarnes and Benjamin, Pan-Pacific Ent.  
3, 111-112, 1927.**Hemiceras** arbogasta 64, chromona 58-59,  
climaca 57-58, elphega 63, eustalhia  
62-63, hidulpha 60-61, joinvillia 58,  
jovita 61, liboria 56-57, monegonda  
63-64, noctifer 65, phocas 61-62,  
praxides 62, reyburni 60, taperinha  
59-60, teffea 59, turiafa 57, turnina 64,  
ursara 56, vinvala 65.

nSchaus, P. U. S. N. M. 73; 19, 1928.

**Hemichionaspis aspidistrae** (Fern scale)\*

iSeverin, So. Dak. Ent. R. 15, 29, 1924.

**Hemigyron neuron apicale**nBrues, Proc. Amer. Acad. Arts & Sci. 61,  
256-258, 1926.**Hemihyalea camposi**

nSchaus, Proc. Ent. Soc. Wash. 29, 74, '27.

**Hemilucilia parva, townsendi**nShannon, Proc. Ent. Soc. Wash. 23, 125-  
126, 1926.**Hemimene bowanana**niMcDunnough, Can. Ent. 59, 225-226,  
1927.**Hemimene oculifera, paula signifera**

niHeinrich, USNMB. 132, 21-23, 1926.

**Hemipsecteros teffaina**

nSchaus, P. U. S. N. M. 73; 19, 28, 1928.

**Hemipimpla lachesis**

Girault, Ins. Insc. Mens. 13, 36, 1925.

**Hemiptera**—AquaticiHungerford, Ann. Ent. Soc. Amer. 21,  
139-146, 1928.Hungerford & Beamer, Ent. News 36,  
262-266, 1925.**Hemiptera**—British ColumbiaDownes, Ent. Soc. B. C. Proc. 21, 27-33,  
1924.

Whittaker, Can. Ent. 58, 63, 1926.

**Hemiptera**—CaliforniaVan Duzee, Bklyn. Ent. Soc. B. 20, 89,  
1925.**Hemiptera**—Collections

Barber, Ent. News 39, 193-194, 1928.

**Hemiptera**—Delaware

Dozier, Del. B. 152, 23-25, 1927.

**Hemiptera**—Food habits

bEwing, J. Ec. Ent. 22: 761-765, 1929.

**Hemiptera**—Guerin-Meneville's types—  
Paris MuseumHungerford, Pan. Pac. Ent. 6, 73-77,  
1929.**Hemiptera**—No. AmericabParshley, Bib. No. Amer. Hemiptera  
Heteroptera, 1925, 252p.**Hemiptera**—OrientVan Duzee, Pan-Pac. Ent., 6, 91-95,  
1929.**Hemiptera**—Rainy River Dist.Brimley, Canadian Field-Nat. 43, 28-30,  
1929.**Hemiptera**—Western No. AmericaVan Duzee, Cal. Acad. Sci. Proc. ser. 4,  
14, 391-425, 1925.**Hemiptera-Heteroptera**—Galapagos Ex-  
peditioniBarber, Zoologica, N. Y. 5, 241-264,  
1925.**Hemiptycha** genus

Metcalf, Ent. News 38, 15-16, 1927.

**Hemisarcophes malus**

Miller, Ohio B. 386, 154, 1925.

**\*Hemispherical scale, see Saissetia hemi-  
sphaerica****Hemistephanus giganteus**

nGirault, Ins. Insc. Mens. 14, 16-17, 1926.

**Hemistilbia**—n. gen.nBarnes & Benjamin, Bklyn. Ent. Soc. B.  
24, 168, 1929.**Hemiteles apantelis**

nCushman, J. Agr. Res. 34, 453, 1927.

bMuesebeck & Dohanian, U. S. D. A. B.  
1487, 15, 1927.**Hemiteles fulvipes**ibMuesebeck & Dohanian, U. S. D. A. B.  
1487, 14-15, 1927.**Hemiteles humeralis**

ibTaylor, Ent. Amer. 10; 70, 1929.

**Hemiteles hungerfordi**nCushman, P. U. S. N. M., 76; 25, 4-5,  
1929.**Hemiteles tenellus**ibMuesebeck & Dohanian, U. S. D. A.  
B. 1487, 12-14, 1927.**Hemlock budworm, see Peronea variana****Hemlock insects**

Peirson, Me. For. Serv. B. 5, 70, 1927.

**Hemlock scale, see Aspidiotus abietis****\*Hemlock spanworm, see Ellopia fiscel-  
laria**

- Hen flea*, *see* *Sarcopsylla gallinacea*
- Heodes heteronia*  
Gunder, Ent. News 36, 194, 1925.
- Heodes hypophlaeas*, *thoe*  
Rummel, Brklyn. Ent. Soc. B. 23: 268, 1928.
- Hepialus novigannus*, *roseicaput*  
nBarnes & Benjamin, Pan-Pacific Ent. 2, 81-82, 1925.
- Heraeus pacificus*—Galapagos Islands  
nBarber, Zoologica, N. Y. 5, 245, 1925.
- Hercostomus occidentalis*  
iCole, J. Ent. & Zool. 17, 57, 1925.
- Hercostomus purpuratus*  
nVan Duzee, Psyche 32, 185-186, 1925.
- Hercothrips*—n. gen. 223-224, *funnebris* 240-242, *insularis* 234-235, *masculinus* 237-239, *nanus* 235-237, *williamsi* 239-240; nWilder, Psyche 34, 1927.
- Heriades carinatus*  
Hicks, Ent. News 38, 297-300, 1927.
- Heriades crawfordi*  
nGraenicher, Ent. News 39, 281, 1929.
- Hermannia bistriata*  
Miller, Ohio B. 386, 143-144, 1925.
- Hermathena dativa*  
nSchaus, Proc. Ent. Soc. Wash. 30, 47-48, 1928.
- Hermetia aurata*—Breeding of  
Engelhardt, Brklyn Ent. Soc. B. 23, 122, 1928.
- Hesperapis pellucidus*  
nCockerell, Proc. Cal. Acad. Sci. ser. 4, 14; 11, 198, 1925.
- "*Hesperia bulenta*"—Rediscovery  
iJones, Ent. News 37, 193-198, 1926.
- Hesperia eos*  
Lindsey, Ent. News 39, 91-93, 1928.
- Hesperia freija*  
Bell, Ent. News 37, 109-110, 1926.
- Hesperia ruricola*  
Holland, Ent. News, 40, 326-328, 1929.
- Hesperiidae*  
Bell, J. N. Y. Ent. Soc. 34, 269-271, 1926.  
Bell, Brooklyn Ent. Soc. B. 21, 192, 1926.  
Shepard, Ent. News 37, 319-324, 1926.  
Shepard, Ent. News, 40, 233-234, 1929.
- Hesperioidea*  
Lindsey, Ann. Ent. Soc. Amer. 18, 75-106, 1925.  
iWilliams, Trans. Amer. Ent. Soc. 52, 61-88, 1926.
- iWilliams, Trans. Amer. Ent. Soc. 53, 261-292, 1927.
- Hesperocimex*, n. gen., *coloradensis*  
List, Proc. Biol. Soc. Wash. 38, 104-106, 1925.
- Hesperolabops periscopis*, *picta*  
nKnight, Proc. Ent. Soc. Wash. 30, 67-68, 1928.
- Hesperoleon douglasi*  
nBanks, B. Harvard Mus. Comp. Zool. 68, 20-21, 1927.
- Hesperophasia aenescens* 302-303, *aldrichi* 301, *nigripennis* 303, *pacifica* 301-302; nCurran, Can. Ent. 59, '27.
- Hesperophylax designatus*  
Hisaw, Ecology 6, 126, 1925.
- Hesperotingis floridana*, *mississippiensis*  
nDrake, Fla. Ent. 12, 4-5, 1928.
- \**Hessian fly*, *see* *Phytophaga destructor*
- Hesteroneura setariae*  
iQuaintance & Baker, U. S. F. B. 1128, rev. Apr. 1926, 13-14.
- Hetaerius carri*  
nHatch, Can. Ent. 58, 276, 1926.
- Heterachtes quadrimaculatus*  
Champlain, Kirk & Knoll, Ent. News 36, 106, 1925.
- Heteranthidium subtimberlakei*, *timberlakei*; nSchwarz, J. N. Y. Ent. Soc. 36, 409-415, 1928.
- Heterobracon juglandis*—Variable characters  
bWhiting, Genetics 11, 305-316, 1926.
- Heterocampa guttivitta*  
bCollins, J. Agr. Res. 32, 689-699, 1926.  
Peirson, Me. For. Serv. B. 5, 83, 1927.
- Heterocampa lunata*  
Dyar, Ins. Insc. Mens. 13, 47, 1925.
- Heterocampa umbrata*  
Chermok, Brklyn. Ent. Soc. B. 22, 118, 1927.
- Heterochroa bredowi*  
iEssig, Insects of Western No. Amer., 1926, 648.
- Heterocloeon* n. gen.  
McDunnough, Can. Ent. 57, 175, 1925.
- Heterocordylus malinus* (Dark apple red bug).  
Crosby et al, N. Y. C. B. 498, 33-35, '29.  
Porter, Ind. Hort. Soc. Tr. 64, 58-59, 1925.



**Heterocoris cyaneus**

nKnight, Brklyn. Ent. Soc. B. 21, 103-104, '26.

**Heterocorixa boliviensis** 100-101, **brasilensis** 101, **hesperia** 102, **nigra** 100,

sp. 99, **williamsi** 99-100; niHungerford, Brklyn. Ent. Soc. B. 23: 1928.

**Heterodera punctata**

inThorne, Sci. Agr. 8, 707-711, 1928.

**Heterodera radiculola**

Chapman & Parker, Sci. 70, 18, 1929.

bEarle, Facts About Sugar 22, 1012-1013, 1927.

G. H. G., Pineapple News 3: 3, 43, 1929.

McClenahan, Florists Exchange 60; 2, 85, 1925.

Matz, Facts about Sugar 20, 1193-1194, 1925.

Muir, Assoc. Hawaiian Sugar Tech. R. 5, 15, 1926.

Park, Oreg. St. Bd. Hort. Bien. R. 19, 64-65, 1927.

Rosen, Phytopathology 16, 235, 1926.

Scott, Cal. Agr. Mo. B. 16, 361, 1927.

Stewart, Assoc. Hawaiian Sugar Tech. R. 5, 13, 1926.

Watson, Fla. R. f. 1927, 45R-46R, '27.

Watson, Fla. R. f. 1928; 47R.

Watson, Fla. Dept. Agr. Quar. B. 39:3; 56-57, 160-176, 1929.

**Heterodera schachtii**

Cassidy & Van Zwaluwenburg, Assoc.

Haw. Sugar Tech. R. 6, 10-15, 1927.

Kruger, Pineapple News 3, 184-186, '29.

iPena, La. Hacienda, 22, 314, 1927.

iThorne, U. S. F. B. 1514, 1927, 20 p.

iThorne, J. Agr. Res. 37, 10:571-575, '28.

**Heterodera sp.**

GHG & HTM, Pineapple News 2, 102-103, 1928.

Stewart, Assoc. Haw. Sugar Tech. R. 6, 16-21, 1927.

**Heteronotus albospinotus, vespiformes**

niHaviland-Brindley, Zoologica, N. Y. 6, 245-247, 1925.

**Heteroptera**

biBlatchley, Heteroptera in N. A. 1926, 1116 p.

Knight, Brklyn. Ent. Soc. B. 24, 143-154, 1929.

McAtee, Brklyn. Ent. Soc. B. 22, 267-281, 1927.

**Heteroptera—British Columbia**

Downes, Ent. Soc. B. C. Proc. 23, 1-22, 1927.

**Heteroptera—Canal Zone**

Torre-Buono, Brklyn. Ent. Soc. B. 21, 108, 1926.

**Heteroptera—Eastern North America**

Blatchley, J.N.Y. Ent. Soc. 36, 1-23, '28.

**Heteroptera—Kentucky**

Torre-Buono, Brklyn. Ent. Soc. B. 21, 190-191, 1926.

**Heteroptera—Massachusetts**

Torre-Buono, Brklyn. Ent. Soc. B. 21, 53-55, 1926.

**Heteroptera—Ocean drift.**

bMyers, Psyche 33, 110-115, 1926.

**Heteroptera—Wing-venation**

iHoke, Ann. Ent. Soc. Amer. 19, 13-34, 1926.

**Heterospilus beameri** 177-178, **cephi** 178-

179, **etiellae** 179-180, **melanocephalus** 181-182, **zeteki** 180-181.

niRohwer, J. Wash. Acad. Sci. 15, 1925.

**Heterostomus pulicarius**

Felt, N. Y. St. Mus. B. 274, 151, 1928.

—Conn. B. 265, 339, 1925.

**Heterostylum xanthobasis**

nCurran, Amer. Mus. Nov. 339, 6, 1929.

**Heterothrips arisaemae**

iHood, Brklyn. Ent. Soc. B. 20, 126-127, '25.

**Heterothrips gillettei**

nMoulton, Brklyn. Ent. Soc. B. 24, 228-

229, 1929.

**Heterothrips limbatus**

niHood, Brklyn. Ent. Soc. B. 20, 124-

126, 1925.

**Hexacentrus munda**

nCaudell, PUSNM 71: 3, 30, 1928.

**Hexacnemus, n. gen., armitagei**

Timberlake, PUSNM 69; 3, 12-16, '26.

**Hexameris meridionalis**

Plank, J. Ec. Ent. 22, 982-983, 1929.

**Hexarthrum ulkei—Damage to White House**

Snyder, J. Wash. Acad. Sci. 18, 381-382, '28.

**Hexatoma microcera**

nAlexander, Ent. News 37, 49-50, 1926.

**Hibernation of insects, see Insects, Hibernation.****Hibiscus bee, see Emphor bombiformis**

- Hibiscus mealybug*, *see* *Phenacococcus bakeri*
- Hickory and pecan twig-girdler*, *see* *Onidieres cingulatus*
- \**Hickory bark beetle*, *see* *Scolytus quadrispinosus*
- \**Hickory borer*, *see* *Cyllene robiniae*
- Hickory insects*  
     Peirson, Me. For. Serv. B. 5, 73, 1927.
- Hickory nut curculio*, *see* *Conotrachelus affinis*
- Hickory phylloxera*, *see* *Phylloxera caryaecaulis*
- Hickory saperda*, *see* *Saperda discoidea*
- Hickory shoot curculio*, *see* *Conotrachelus aratus*
- \**Hickory shuck worm*, *see* *Laspeyresia caryana*
- Hickory sphinx*, *see* *Cressonia juglandis*
- Hickory spiral borer*, *see* *Agrilus arcuatus*
- Hickory timber beetle*, *see* *Xyleborus celsus*
- \**Hickory tussock moth*, *see* *Halisodota caryae*
- Hickory twig borer*, *see* *Chramesus hickoriae*
- \**Hide beetle*, *see* *Dermestes vulpinus*
- Hilara auripila* 247-248, *crickmayi* 246-247, *garretti* 248, *granditarsis* 248-249, *rufopuncta* 245-246.  
     nCurran, Can. Ent. 58, 1926.
- Hilarella* gen., *hilarella*  
     Allen, PUSNM 68; 9, 78-81, 1926.
- Himertus rubiginosus*  
     nCushman, PUSNM 72; 13, 15, 1928.
- Hilarotes* spp.—Key  
     Fisher, U. S. N. M. P. 65; 70, 1925.
- Hille herbicola*  
     nHaviland-Brindley, Zool. N. Y. 6, 255, '25.
- Himertus dakota*, *flavidus*  
     nCushman, PUSNM 72; 13, 14-15, 1928.
- Hindsiana dodgei*, *pullata*  
     nHood, Bklyn. Ent. Soc. B. 20, 26-27, 1925.
- Hindsiana rhopalocera*  
     nHood, Psyche 32, 57, 1925.
- Hippelates collusor*  
     nCurran, Amer. Mus. Nov. 220, 4, 1926.
- Hippelates flavipes*  
     Herms, J. Ec. Ent. 19, 692-695, 1926.
- Hippelates flavipes* and *pinkeye*  
     Merrill, Cal. R. f. 1925-26, 67.
- Hippelates illicis*, *incipiens*, *lutzi*  
     nCurran, Amer. Mus. Nov. 220, 4-5, '26.
- Hippelates pusio*  
     Merrill, Cal. R. f. 1927-28, 73, 1929.  
     O'Kane, Cal. Dept. Agr. M. B. 18, 438, '29.
- Hippelates pusio*—California  
     Science, Supp. 69; 1783, xiv, 1929
- Hippoboscidae*  
     iBequaert, Harvard Institute Trop. Biol. & Med. Cont. 4, 240-241.  
     iFerris, Can. Ent. 59, 246-251, 1927.
- Hippodamia convergens* (Convergent lady beetle)  
     iCole, Fla. Hort. Assoc. Proc. 38, 155, '25.  
     Eddy, Ohio J. Sci. 27, 197, 1927.  
     Ingles, J. Ent. & Zool. 21, 39, 1929.
- bliKnight*, *Hilgardia* 1, 35, 1925.  
     Latta, Psyche 35, 229-231, 1928.
- ibMiller*, Fla. B. 203, 456-457, 1929.
- iMiller & Thompson*, Fla. Ent. 11, 3-5, '27.  
     Thompson, Fla. Ent. 10, 40-46, 1926;  
     11, 50, 1928; 12-41, 1928.
- iWatson*, Fla. B. 183, 364, 1926.
- Hister jaquesi*, *laevicaudoides*  
     nHatch, Can. Ent. 61, 76, 77, 1929.
- Histiostoma americana*  
     Miller, Ohio B. 386, 151, 1925.
- Hochstein*, Anton 1829-1911  
     iWeiss & Schott, Ent. News 38, 1-4, '27.
- Hodotermes*  
     Snyder, Proc. Biol. Soc. Wash. 38, 158, '25.
- \**Hog follicle mite*, *see* *Demodex phyll-oides*
- \**Hog louse*, *see* *Haematopinus suis*
- Hog mange mite*, *see* *Sarcoptes scabiei suis*
- Holcocera confamulella*  
     Bottimer, J. Agr. Res. 33, 814, 1926.
- Holcocera iceryaeella*  
     iBasinger, Cal. Citrograph 12, 342, '27.  
     Basinger, Cit. Leaves 8; 2, 1 & 30, '28.  
     Merrill, Cal. R. f. 1927-28, 35, 1929.
- Holcocera iceryaeella*—Key  
     Basinger, Cal. Citrog. 12, 107, 1927.
- Holcocera immaculella*  
     niMcDunnough, Can. Ent. 61, 269-270, '29.
- Holcocera maligemmela* (Fringe wing apple bud moth)  
     Pettit, Mich. St. Bd. Agr. R. 66, 346, '27 ('28)  
     Pettit, Mich. Ent. R. f. 1927, 10, 1927.

- Holcocera phenacocci**  
nBraun, Ent. News 28, 118, 1927.
- Holcoposites haematurus**  
nCockerell & Hicks, Ent. News 37, 107-108, 1926.
- Holepyris floridanum, marylandicus**  
Fouts, Proc. Ent. Soc. Wash. 30, 124-125, 1928.
- Holepyris punctifrons**  
nFouts, Proc. Ent. Soc. Wash. 29, 166, '27.
- Holland, W. J. 1848—Autobiography**  
biGunder, Ent. News 40, 210-217, 1929.
- Holly leaf miner, see Phytomyza ilicis**
- Holocremnus spp.—Key**  
Viereck, Can. Ent. 57, 203, 1925.
- Holokalumma coloradensis, floridae**  
nibJacot, B. Mus. Comp. Zool. 69, 34-35, 1929.
- Holometabola—Labia**  
biCrampton, Proc. Ent. Soc. Wash. 27, 68-91, 1925.
- Holophaea erharda**  
nSchaus, Proc. Ent. Soc. Wash. 29, 74, '27.
- Holopothrips elongatus, ferrisi**  
nMoulton, Pan-Pac. Ent. 6, 13-15, 1929.
- Holopothrips fulvus**  
nMorgan, Proc. Ent. Soc. Wash. 31, 6-7, 1929.
- Holorusia guatemalensis**  
nAlexander, Ins. Insc. Mens. 14, 161-162, 1927.
- Holorusia rubiginosa (Giant crane-fly)**  
i—Nat. Mag. 8, 32a, 1926.  
i—Nat. Mag. 8; 1, plate, 1926.
- Holorusia schineriana**  
nAlexander, Ann. Ent. Soc. Amer. 21, 635-636, 1928.
- Holorusia sinuosa, strangalia**  
nAlexander, Ins. Insc. Mens. 14, 160-163, 1927.
- Holotrochus arizonicus 66-67, brachyp-  
terus 65-66, laevicauda 65, parvulus  
66, spp. 65-67.**  
Chapin, Proc. Ent. Soc. Wash. 30, 1928.
- Holozetes—n. gen.**  
nibJacot, B. Harvard Mus. Comp. Zool. 69, 34, 1929.
- Homaemus aeneifrons**  
nWalley, Can. Ent. 61, 256, 1929.
- Homalactia gen., brimleyi, harringtoni**  
Curran, Can. Ent. 58, 85-86, 1926.
- Homalomyia canicularis**  
iFelt, N. Y. St. Mus. B. 274, 16, 1928.  
McDaniels, Mich. Cir. B. 106, 8-9, 1927.
- Homalotylus terminalis**  
ibMiller, Fla. B. 203, 456, 1929.
- Homoeosoma electellum**  
Bottimer, J. Agr. Res. 33, 803, 1926.  
Curtiss, Iowa R. f. 1927, 36, 1927.  
Drake & Harris, Iowa Hort. Soc. Tr. 61, 223-225, 1927.
- Homohadena jocularis**  
Barnes & Benjamin, Proc. Ent. Soc. Wash. 27, 125-126, 1925.
- Homoneura affinis 81, atriceps 76, bakeri  
75-76, bilineella 74-75.**  
inMalloch, P. U. S. N. M. 74; 6, 1929.
- Homoneura chinensis**  
nMalloch, Bklyn Ent. Soc. 21, 176, 1926.
- Homoneura costalis 69-70, crinita 70,  
curta 67-68, demeijerii 75, dentifera  
71, diacrostichalis 68, fuscobrunnea  
79-80, grahami 81, hirtitibia 70-71,  
horni 70, immaculipennis 78-79,  
indica 62, intermedia 69, luzonensis  
73, macgregori 64, maquilingensis  
71-72, nigriqlua 64, opacithorax 72,  
philippinensis 68, piceiodes 72-73,  
piliseta n. name 66, robusta 73-74,  
setiventris 60-61, umbrosa 56, yer-  
buryi 61-62.**  
nMalloch, P. U. S. N. M. 74; 6, 1929.
- Homoptera—British Columbia**  
Downes, Ent. Soc. B. C. Proc. 23, 1-22, 1927.
- Homoptera**  
bMyers, Harvard Inst. Trop. Biol. & Med. Cont. 3, 69-110, 1926.
- Homoptera—Cuba**  
iOsborn, Ann. Ent. Soc. Amer. 19, 335-366, 1926.  
Osborn, J. Ec. Ent. 19, 99-106, 1926.  
Osborn, Ref. Bk. Sugar Indus. of World 4, 47, 1926.
- Homoptera—Feeding, improved technic**  
Carter, Phytopathology 18, 246-247, 1928.
- Homoptera—Ill.**  
McAtee, Ill. Nat. Hist. Surv. B. 16, 3, 127-136, 1926.
- Homoptera—Mexico, collecting in**  
Ferris, Ent. News 37, 182-183, 1926.

**Homoptera—Morphology of head**

iMuir, Ann. Ent. Soc. Amer. 19, 67-73, 1926.

**Homoptera**

Haupt, Philippine J. Sci. 29, 431-435, 1926.

Osborn, Ann. Carnegie Mus. 15, 383-462, 1925; 16, 155-248, 1926.

bOsborn, P. R. Dept. Agr. J. 13, 81-112, 1929.

**Homoptera—Sugarcane**

ibMyers, Harvard Inst. Trop. Biol. & Med. Cont. 3, 69-110, 1926.

**Homotropus decoratus**

Flanders, Pan Pac. Ent. 2, 158, 1926.

Kamal, J. Ec. Ent. 19, 723, 1926.

**Homotropus humeralis**

Kamal, J. Ec. Ent. 19, 723, 1926.

**Honey Ants**

iMentor 16, 65-F 1928.

**\*Honey bee, see Apis mellifica**

**Honey, Chemical composition**

— Ind. Dept. Conserv. Div. Ent. R. f, 1927, 43, 1928.

**Honey—Color grading**

Sechrist, USDA Dept. C. 364, 1925, 7 p.

iSechrist et al, USDAC 24, 1928. 32 p.

**Honey crop failure**

Ruffin, J. Ec. Ent. 21, 387-391, 1928.

**Honey dew**

Barnes, Can. Ent. 57, 69, 1925.

ibJones, Colo. B. 341, 12-16, 1929.

Weld, Am. Bee. J. 65, 469, 1925.

**Honey—Diastase in**

ibVansell & Freeborn J. Ec. Ent. 22, 922-926, 1929.

**Honey fermentation**

iFabian & Quinet, Mich. Tech. B. 92, 1928, 41p.

**Honey flow**

Munro, J. Ec. Ent. 22, 518-522, 1929.

**Honey—For auto registers**

Frazer, Tenn. Hort. Soc. Proc. 20, 78-80, 1925.

**Honey from long-tubed flowers**

bBurrill, J. Ec. Ent. 19, 163-170, 1926.

**Honey, how to use**

Child & Kolshorn, Minn. Sp. B. 122, 1928, 8p.

**Honey—Marketing**

Atkins, J. Ec. Ent. 19, 142-149, 1926.

**Honey—Packing requirements**

iSechrist et al, U.S.D.A.C. 24, 13-14., '28.

**Honey plants**

iBlackstone, Amer. Bee J. 65, 524, 1925.

Burr, Gleanings 52, 769-772, 1924.

Cook, Iowa Acad. Sci. Proc. 30, 301-329, 1923.

King, Iowa St. Hort. Soc. Trans. 59, 115-127, 1925.

iLovell, Honey plants of N. Amer. 1926, 408p.

iParks, Texas C. 46, 1927, 11p.

Pellett, Amer. Bee J. 65, 516, 1925.

Pellett, Flower Grow. 16, 283, 1929.

**Honey U. S. Standards**

Sechrist et al, U. S. D. A. Dept. C. 410, 1927, 32p.

**Honey—Yeasts in**

iMarvin, J. Ec. Ent. 21, 363-370, 1928.

Wilson & Marvin, J. Ec. Ent. 22, 513-517, 1929.

**Honey wasps, see Nectarina lecheguana**

**Honora palloricostella**

nDyar, Proc. Ent. Soc. Wash. 30, 141, '28.

**Hooke, Robert—Entomology of**

Weiss & Ziegler, J. N. Y. Ent. Soc. 36, 95-99, 1928.

**Hookworm**

bVidhikar, Parasitology, 13, 195-198, 1927.

— Nation's Health 8, 697, 1926.

**\*Hop aphid, see Phorodon humuli**

**\*Hop flea beetle, see Psykloides punctulata**

**\*Hop looper, see Hypena humuli**

**Hop vine borer, see Gortyna immanis**

**Hoperius—n. gen., planatus**

nFall, J. N. Y. Ent. Soc. 35, 117-178, 1927.

**Hoplandothrips angustatus**

nHood, Proc. Biol. Soc. Wash. 40, 199-200, 1927.

**Hoplandothrips gynandrus, proximus**

niHood, Ent. Americana 7, 230-234, 1927.

**Hoplandothrips sycamorensis**

nMason, Pan-Pac. Ent. 2, 155-156, 1926.

**Hoplisus costalis**

Reinhard, J. Wash. Acad. Sci. 15, 107, 1925.

**Hoplocampa halcyon—(Saskatoon sawfly)**

biBird, Ann. Ent. Soc. Amer. 19, 268-279, 1926.

biBird, Sci. Agr. 6, 353-357, 1926.

biBird, Ann. Ent. Soc. Amer. 20, 481-487, 1927.

**Hoplocampa lacteipennis**

biBird, Sci. Agr. 8, 499-501, 1928.

**Hoplocampa xantha**

Bird, Sci. Agr. 8, 497, 1928.

**Hoplocheiloma n. gen., notitipennis**

nCresson, Trans. Amer. Ent. Soc. 52, 272, 1926.

**Hoplocryptus spp.—On Phlyctaenia ter-tialis**

Baldus, Ohio J. Sci. 29, 233, 1929.

**Hoplogryon coxalis**

nFouts, Proc. Ent. Soc. Wash. 27, 103, 1925.

**Hoplonannus, n. gen., brunnea**

McAtee & Malloch, PUSNM 67; 13, 30, '26.

**Hoplonympha natator**

ibLight, Cal. Univ. Pub. Zool. 29; 5, 123-140, 1926.

**Hoplophora genus**

Metcalf, Ent. News 38, 15, 1927.

**Hoplopsyllus anomalus**

Felt, N. Y. St. Mus. B. 274, 35, 1928.

**Hoplopsyllus minutus, powersi**

niFox, Pan-Pac. Ent. 2, 184-185, 1926.

**Hoplothrips karnyi**

Moulton, Ent. News 40, 22, 1929.

**Hoplothrips kincaidi**

nMoulton, Bklyn. Ent. Soc. B. 24, 241-242, 1929.

**Hoplothrips mexicanus**

nMoulton, Pan-Pac. Ent. 6, 12-13, 1929.

**Hoplothrombium—n. gen., quinquescutum**

inEwing, Amer. J. Trop. Med. 5, 263-264, 1925.

**Hoppingiana kingi**

nBrown, Can. Ent. 60, 147-148, 1928.

**Horama stoneri**

nLindsey, Univ. of Iowa Stud. Nat. Hist. 11; 7, 34, 1926.

**Horcias fasciativentris imitator—n. var.**

nKnight, Bklyn. Ent. Soc. B. 20, 51, 1925.

**Horisme incana var. columbia**

nMcDunnough, Can. Ent. 59, 242-244, 1927.

**Hormagathis—n. gen., mellea**

nBrues, Proc. Amer. Acad. Arts & Sci. 61, 287-289, 1926.

**Hormomyia fulva**

Felt, Boston Soc. Nat. Hist. Occ. Papers 5, 208, 1926.

**Hormorus undulatus**

Champlain & Knull, Can. Ent. 57, 114, 1925.

**\*Horn fly, see Haematobia irritans****Horned oak gall, see Andricus cornigerus****Horned passalus, see Passalus cornutus****Hornia gigantea**

Mickel, Ent. News 40, 1-7, 1929.

**\*Horse botfly, see Gastrophilus intestinalis****Horse flies, see Tabanidae****\*Horse follicle mite, see Demodex equi****Horse mange mite, see Sarcoptes scabiei equi****\*Horse-radish flea beetle, see Phyllotreta armoraciae****Horse radish insects**

Dempsey, Amer. Prod. Grow. 4; 9, 10, 1929.

**Hortonius euenemus, n. gen. & n. sp.**

Dyar, Ins. Insc. Mens. 14, 95-96, 1926.

**Hot water as an insecticide, see Insecticides, Hot water****Hot water insects**

bBrues, Proc. Amer. Acad. Arts & Sci. 59, 385-393, 1924.

iBrues, Quart. R. Biol. 2; 2, 181-203, 1927.

Brues, Internat. Cong. Ent. 4, Tr. 2, 237-240, 1929.

**Houghton's gooseberry aphid, see Aphis houghtonensis****\*House centipede, see Scutigera forceps****\*House cricket, see Gryllus domesticus****\*House fly, see Musca domestica****House mosquito, see Culex pipiens****House plant insects**

Felt, Garden Mag. 42, 138, 1925.

Ford, S. Dak. St. Hort. Soc. R. 22, 147-148, 1925.

iGriswold, N. Y. C. Ext. B. 162, 1927, 15P.

L. C., Success. Farm. 23; 10, 113, 1925.

iWhithead, J. Agr. & Hort. 32, 134, 1928.

iYeager, N. D. B. 224, 10-12, 1928.

**Household insects**

Britton, Conn. B. 285, 177, 1927.

Davis, Ind. Acad. Sci. Proc. 43, 459-460, 1928.

iDavis, Ind. C. 150, 1928, 24p.

iFord, S. Dak. Ext. C. 222, 1-10, Dec. 1925.

- Gershenfeld, Hygeia 3, 251-252, 311,  
 459-460, 517, 581-582, 706-707, 1925.  
 iGibson & Twinn, Can. Dept. Agr. B.  
 112, 84p. 1929.  
 Guyton, Pa. Dept. Agr. B. 432, '26, 21p.  
 iHerrick, Insects inj. household, 1926,  
 478p.  
 iHungerford, Kans. St. Bd. Agr. Bien.  
 R. 24, 83-120, 1924.  
 Lieber, Ind. Dept. Conserv. R. 6, 40-44,  
 1925; R. 7, 43-49, 1925; R. 9, 49-50,  
 1927; R. 10, 63-65, 1928.  
 Mann, N. Y. C. R. 42, 32, 1929.  
 Maheux, Quebec Soc. Protec. Pl. R.  
 18, 96-97, 104-112, 1925-26.  
 iManter, Conn. Ext. B. 100, 1926, 16p.  
 iMetcalf & Flint, Dest. & usef. Ins. 731-  
 766, 1928.  
 O'Dell, Ariz. Com. Agr. & Hort. R. 15-  
 16, 61, 68-69, 1925.  
 Reasoner, Iowa Homestead, 74, 1123,  
 1929.  
 Rude, Okla. Ext. News, 7; 6, 4, 1926.  
 Rude, Okla. Ext. C. 223, 1927, 7p.  
 Rude, Okla. Ext. C. 223, rev. 1928, 8p.  
 Sherman, N. C. R. 47, 74, 1925.  
 iSnyder, Nature Mag. 10, 309-314, 1927.  
 Spittall, Ont. Ent. Soc. R. 58, 15, 1928.  
 iStrand, Minn. B. 102, 1-19, 1926.  
 T.; L. M., Amer. Agr. 117, 534, 1926.  
 Van Rensselaer, Delineator 106, 54,  
 May 1925.  
 Wallace, Ind. Ent. R. f. 1927, 29-30.  
 Wallace, Ind. Dept. Conserv. R. 10,  
 63-65, 1929.  
**Howard, Dr. L. O., Resigns**  
 C. L. L., Flor. Exch. 66; 8, 649, 1927.  
 Wilcox, Farm & Ranch 48; 3, 3, 20, '29.  
 —J. Ec. Ent. 20, 848-849, 1927.  
 \*Howardia biclavus (Mining scale)  
 Severin, So. Dak. Ent. R. 15, 28, 1924.  
 \*Howard's scale, see Aspidiotus howardi  
 Howdy mayfly, see Chirotenetes sp.  
 Hulda, n. gen.  
 iHeinrich, U.S.N.M.B. 132, 108, 1926.  
 Hulstina aridata  
 nBarnes & Benjamin, Bklyn. Ent. Soc.  
 B. 24, 186, 1929.  
 Human botfly, see Dermatobia hominis  
 Human flea, see Pulex irritans  
 Humblebee, see Bremus bimaculatus  
 Humpedback melon bug, see Pycnoderes  
 quadrimaculatus  
 Hunter, Walter David—Obituary  
 iHoward, J. Ec. Ent. 18, 844-848, 1925.  
 biHoward, Proc. Ent. Soc. Wash. 27,  
 170-181, 1925.  
 Howard, Houser & Osborn, Ann. Ent.  
 Soc. Amer. 19, 257-258, 1926.  
 Hyaliodes vitripennis  
 iStear, J. Ec. Ent. 18, 636, 1925.  
 Hyalopteris arundinis (Mealy plum  
 aphid)\*  
 iBrittain, N. S. Dept. Nat. Resource,  
 B. 12, 57, 1927.  
 Britton, Conn. B. 294, 297, 1928.  
 Crane, Cal. Dept. Agr. Mo. B. 17, 291, '28.  
 Merrill, Cal. R. f. 1927-28, 72, 1929.  
 Merrill, Cal. R. f. 1928-29, 69.  
 iQuaintance & Baker, U. S. F. B. 1128;  
 rev. Apr. 1926, 15.  
 Smith, J. Ec. Ent. 22, 705, 1929.  
 Hyaloscotes fumosa  
 iJones, Ent. News 36, 161-164, 1925.  
 Hyarinus—n. gen., hesperus  
 niChamberlin, Cal. Univ. Tech. B. Ent.  
 3; 4, 327-329, 1925.  
 Hyatt, Alpheus—Memorial of  
 —Science 68, 291-292, 1928.  
 Hybodera tuberculata  
 Van Dyke, Pan-Pac. Ent. 1, 175, 1925.  
 Hydriobius luggeri  
 nHatch, Minn. Tech. B. 48, 18, 1927.  
 Hydnocera blanchardi, cuneiformis  
 nWolcott, Ent. News 39, 210-211, 1928.  
 Hydnocera huachiana  
 nChapin, PUSNM 71 2, 4-5; 1928.  
 Hydnocera mira, puritana  
 nWolcott, Ent. News 39, 207-208, 1928.  
 Hydnocera verticalis  
 bMuesebeck & Dohanian, U. S. D. A. B.  
 1487, 32, 1927.  
 Hydracarina  
 Marshall, Ind. Acad. Sci. Proc. 38, 315, '29.  
 Miller, Ohio B. 386, 120-121, 1925.  
 Hydrachnid on Rana sphenoccephala  
 Hubert, Ecology 8, 143-144, 1927.  
 Hydrachnidae  
 Agar, J. Comparative Psychology, 7,  
 39-74, 1927.  
 iMarshall, Wis. Acad. Sci. Tr. 23, 601-  
 609, 1927.

**Hydrachnidae** *Cont'd*

Marshall, Trans. Am. Micr. Soc. 43, 236-248, 1924.

**Hydrachna** *nova*, *simulans*

nMarshall, Wis. Acad. Sci. Tr. 23, 601-602, 1927.

**Hydrina** *binotata*, *corona*, *pruinosa*

nCresson, Tr. Amer. Ent. Soc. 52, 256-257, 1926.

**Hydriomena** *pluviata*—Identity of

Barnes & Benjamin, Pan-Pac. Ent. 4, 134-135, 1928.

**Hydrobiini**

Winters, Pan-Pac. Ent. 3, 49-58, 1926.

**Hydrobius** *gen.*

Winters, Pan-Pac. Ent. 3, 50-52, 1926.

**Hydrocampa** *proprialis*

Irish, Amer. Florist 65: 1943, 13, 1925.

**Hydrochus**

Martin, Pac. Coast Ent. Soc. 2, 52, '26.

**Hydrochus** *currani*

Brown, Can. Ent. 61, 108, 1929.

**Hydrochus** *equicarinatus*

Blatchley, Can. Ent. 60, 62, 1928.

**Hydrocyanic acid gas**

Brinley & Baker, Biol. B. 53: 3, 201-207, 1927.

Chandler, Animal Parasites, ed. 3, 383-386, 1925.

Davis, Amer. Florist 64, 729, 1925.

Gibson & Twinn, Can. Dept. Agr. B. 112, 4-5, 1929.

Guyton, Pa. Dept. Agr. Gen. B. 432, 20, 1927.

Kirkpatrick, Cal. Citrog. 11, 120, 1926.

Knight, Citrus Leaves 5; 10, 12-13, 1925.

iKnight, Hilgardia 1:3, 36-56, 1925.

Pirrie, Modern Bakery Production, 1928, 271-273.

Quayle, Cal. Citrog. 11, 298, 1926.

Quayle & Knight, Cal. R. f. 1924-25, 43.

Stokes, Am. J. Pub. Health 16: 9, 880-883, 1926.

**Hydrocyanic acid gas**—Injury

Guba, Phytopathology 16, 633, 1926.

**Hydrocyanic acid gas**—Liquid

Quayle, Citrus Leaves 5: 6, 5-6, 1926.

**Hydrocyanic acid gas**—Mice

Schenk, Kans. Ent. Soc. J. 2, 60-66, 1929.

**Hydrocyanic acid gas**—Scale insects

Gray, Citrus Leaves 7: 9, 64, 1927.

**Hydrocycclus** *gen.*

Winters, Pan-Pac. Ent. 3, 52-53, 1926.

**Hydroeciodes** *alternata*

Dyar, Ins. Insc. Mens. 14, 145, 1926.

**Hydroeciodes** *pericopsis*, *plugmona*

nDyar, Ins. Insc. Mens. 14, 184, 1927.

**Hydrophorus** *albomaculatus*, *argentifacies*

nVan Duzee, Psyche, 33, 47-48, 51-52, 1926.

**Hydrophorus** *criddlei*

nVan Duzee, Psyche 32, 181-182, 1925.

**Hydrophorus** *flavipennis*

nVan Duzee, Psyche 33, 48-50, 1926.

**Hydrophorus** *fulvidorsum*

nVan Duzee, Psyche 32, 182-184, 1925.

**Hydrophorus** *fumipennis*

Van Duzee, Pan-Pac. Ent. 1, 155, 1925.

**Hydrophorus** *lividipes*, *maculipennis*, *ni-grinervis*

nVan Duzee, Psyche, 33, 46-51, 1926.

**Hydrophorus** *spp.*, *vandykei*

Van Duzee, Pan-Pac. Ent. 3; 1, 4-11, '26.

**Hydroporomorpha**

Notman, PUSNM 67; 14, 22, 1925.

**Hydroporus** *alaskanus*

nFall, Pan-Pac. Ent. 2, 139-140, 1926.

**Hydroporus** *brodei*

niGellermann, Pan-Pac. Ent. 5, 63-65, '29.

**Hydroporus** *cimicoides*, *falli*, *hebes*

Blatchley, Can. Ent. 57, 162, 1925.

**Hydroporus** *kincaidi*, *obesus*, *rainieri*

nHatch, Brklyn. Ent. Soc. B. 23, 220-224, 1928.

**Hydroporus** *recticollis*

nFall, Pan-Pac. Ent. 2, 140-141, 1926.

**Hydroporus** *uniformis*

nBlatchley, Can. Ent. 57, 162-163, 1925.

**Hydroporus** *yukonensis*

nFall, Pan-Pac. Ent. 2, 138-139, 1926.

**Hydropsyche**—nests

iSavin, Guide to Nature 20, 49-51, 1927.

**Hydrotaea** *abdominalis*, *dissimilis*, *fuscis-quama* nAldrich, PUSNM 69; 22, 5-8, 1926.**Hydrotaea** *houghi*

Petch & Hammond, Ont. Ent. Soc. R. 56, 86, 1926.

**Hydrotaea** *nicicola*

nMalloch, Brklyn. Ent. Soc. B. 20, 184-185, 1925.

**Hydrothassa** *boreella*

nSchaeffer, J. N. Y. Ent. Soc. 36, 289, '28.

- Hydrous triangularis** (Giant water beetle)  
Andrews, School, Sci. & Math. 25, 345-362, 1925.
- Hydryphantes tenuabilis**  
niMarshall, Iowa Univ. Stud. 11:9, 33, '26.
- Hygrobates ruber**  
niMarshall, Iowa Univ. Stud. 11:9, 32, '26.
- Hygrochroma lincanaria**  
nSchaus, Proc. Ent. Soc. Wash. 29, 109, '27.
- Hylaeogena alibertiae**  
nFisher, Proc. Ent. Soc. Wash. 31, 180-182, 1929.
- Hylaeogena coelicolor**  
Fisher, Proc. Ent. Soc. Wash. 31, 182, '29.
- Hylaeus giffardiellus**  
nCockerell, Proc. Cal. Acad. Sci. 14; ser. 4, 11, 186-187, 1925.
- Hylastes yukonis**  
nFall, Pan-Pac. Ent. 2, 207-208, 1926.
- Hylastinus obscurus** (Clover root borer)\*  
Husdon, Ont. Ent. Soc. R. 56, 92-93, '26.
- Hylemyia albitibiensis**  
Huckett, Can. Ent. 61, 167-168, 1929.
- Hylemyia antiqua** (Onion maggot)\*  
iBaker, Ont. Ent. Soc. R. 58, 61-67, 1928.  
ibiBaker & Stewart, Quebec. Soc. Prot. Plt. R. 20, 92-130, 1927-1928.  
Beaulne, Quebec. Soc. Prot. Pl. R. 20: 84; 1928.  
Brittain, Proc. Acad. Ent. Soc. 10, 39, '25.  
iBrittain, N. S. Dept. Nat. Resource B. 12, 85-86, 1927.  
iCaesar, Ont. Dept. Agr. B. 325, 46-48, '27.  
Caesar, Ont. Veg. Grow. Assoc. R. 22, 16, 1927.  
iClark, Wis. B. 396, 100-101, 1927.  
iCompton, Ill. C. 297, 37-39, 1925.  
Compton, Ill. Hort. Soc. Tr. 59, 305-306, 1926.  
Dudley, J. Ec. Ent. 18, 630, 1925.  
Fernald, Applied Ent. ed. 2, 332-333, '26.  
Fitch, Tr. Iowa Hort. Soc. 62, 311-312, 1927.  
Flint, Market Gr. J. 38, 310-311, 1926.  
Flint & Compton, Penn. Crop. Protec. Inst. C. 4; 1, 2, 1925.  
iGlasgow & Cooke, J. Ec. Ent. 22, 683-688, 1929.  
Gui, Ohio B. 431, 77, 1928.  
Headlee, N. J. Hort. Soc. Proc. f. 1926, 31-32.
- MacLeod, Penn. St. Col. C. 122, 28-29, 1929.  
Mote, Ore. C. 65, 32, 1926.  
nHuckett, Can. Ent. 61, 138-139, 1929.  
Jardine, Oreg. Bien. R. 1924-1926, 101-102, 1926; R. f. 1926-28, 103, 1928.  
Kains, Gard. Chronicle, 33, 259, 1929.  
MacLeod, Penn. St. Ext. C. 122; 28-29, 1929.  
Maheux, Quebec Min. Agr. R. f. 1927-28, 191, 1928.  
Mote, Oreg. C. 65, 32, 1926.  
Petch & Armstrong, Quebec Soc. Prot. Pl. R. 17, 72, 1925.  
Peterson, N. J. R. f. 1924, 298-299, 1925.  
iPettit, Mich. Sp. B. 168, 13-14, 1927.  
iPettit, Mich. Sp. B. 183, 11-12, 1929.  
iRaine, McLean's Mag. 38; 17, 20-21, 68, 1925.  
Ruhmann, B. C. Dept. Agr. R. 19, K38-K39, 1925; R. 20, P34, 1926; R. 22, Q. 37, 1928.  
W. E. W., J. Agr. & Hort. 31, 179, 1928.  
Wilson, Utah B. 64, 31-32, 1927.  
iWilson & Whitcomb, J. Ec. Ent. 22, 400-405, 1929.
- Hylemyia antiqua—Parasites**  
Beaulne, Quebec Soc. Prot. Pl. R. 20, 125-126, 1928.
- Hylemyia brassicae**, *see* *Phorbia brassicae*
- Hylemyia brevipalpis**  
niHuckett, Can. Ent. 61, 180-181, 1929.
- Hylemyia brunescens**  
Spencer, Proc. Ent. Soc. B. C. 25; 22, '28.
- Hylemyia brunetta, canadensis**  
nHuckett, Can. Ent. 61, 139-141, 162-163, 1929.
- Hylemyia cilicrura** (Seed corn maggot)\*  
Bonde, et al, Me. B. 349; 179-180, 1928.  
Brittain, N. S. Dept. Nat. Resource B. 12, 76-77, 1927.  
iBritton & Anderson, Conn. Tobacco Expt. Sta. B. 6, 87T-88T.  
iCaesar, Ont. Dept. Agr. B. 325, 21-22, 1927.  
Compton, Canning Trade, 48; 51, 10, 1925.  
Compton, Ill. C. 297, 24, 1925.  
Friend, Conn. B. 265, 314-318, 1925.  
Hayes, J. Ec. Ent. 15, 355, 1922.  
Headlee, N. J. Hort. Soc. Proc. 1926, 29-30, 1927.



*Hylemyia cilicrura* Cont'd

- iHuff, J. Agr. Res. 36, 625-630, 1928.  
 Leach, Science 61, 120, 1925.  
 Leach, Phytopathology 16; 68, 1926.  
 biLeach, Phytopath. 16, 149-176, 1926.  
 ibMacLeod, Can. Dept. Agr. Pam. n.s. 105, 1929, 10 p.  
 MacLeod, Penn. St. Ext. C. 122; 26, '29.  
 iMohler, Kans. St. Bd. Agr. Quar. R. 48: 191, 197, 1929.  
 Mote, Oreg. C. 65, 28, 1926.  
 Pettit, Mich. St. Bd. Agr. R. 63, 211-212, '24; R. 65, 272-274, '26; R. 66, 354, '28.  
 iPettit, Mich. Sp. B. 183, 36-38, 1929.  
 iWatson, Fla. Dept. Agr. Quar. B. 39: 3; 78-80, 113-114, 1929.  
 Zappe, Conn. B. 275, 325, 1926.
- Hylemyia consobrina* 187-189, crucifera 93, egleformis 142-143, equifrons 163-164, frontulenta 161-162, garretti 117-118, gemina 95, impersonata 114-116, lobata 137-138, mutans 113-114, nigricaudata 116-117, oppidans 165-167, pedicillaris 183, pentaformis 110-112, pilicauda 141-142, propinqua 118-119, repleta 112-113, replicata 136-137; nHuckett, Can. Ent. 61, '29.
- Hylemyia (Chortophila) salicola*  
 niHuckett, Brklyn. Ent. Soc. B. 29: 79-81, 1928.
- Hylemyia seamansi* 143-144, sedula 183-187, setissima 164-165.  
 nHuckett, Can. Ent. 61, 1929.
- Hylemyia* sp.  
 Jardine, Oreg. Bien. R. 1924-1926, 102, 1926.
- Hylemyia (Egle) tantalis*  
 niHuckett, Brklyn. Ent. Soc. B. 23: 76-78, 1928.
- Hylemyia trivittata*  
 Hockett, Brklyn. Ent. Soc. B. 24, 294, 1929.
- Hyleorus* n. gen., furcatus  
 Aldrich, Tr. Amer. Ent. Soc. 52, 16-18, 1926.
- Hylephila phylaeus*  
 Bell, Brklyn. Ent. Soc. B. 20, 231, 1925.
- Hylesia biolleya*  
 nSchaus, Proc. Ent. Soc. Wash. 29, 103, '27.
- Hylesia colimatifex*  
 nDyar, Ins. Insc. Mens. 14, 144-145, '26.

- Hylesia munonia* 77, olivenca 102, palcazua 102-103, petena 101-102, sorana 76-77  
 nSchaus, Proc. Ent. Soc. Wash. 29, '27.
- Hylobius pales* (Pales weevil)  
 Britton & Zappe, Conn. B. 202, 163, '27.  
 Craighead, USDA. Dept. C. 411, 4, '27.  
 Felt, J. Ec. Ent. 19, 795, 1926.  
 Felt, N. Y. St. Mus. B. 274, 166-167, 1928.
- iPeirson, Me. For. Serv. B. 5, 104-105, 1927.  
 Wells, J. Ec. Ent. 19, 412-413, 1926.
- Hylocurus quadrispinosus, schwarzi, spadix*; niBlackman, N. Y. St. Coll. For. Tech. Pub. 25, 188-192, 1928.
- Hyloicus luscitiosus*  
 nBarnes & Benjamin, Can. Ent. 59, 4, '27.
- Hylopedetes*—n. gen. 59-62, cruentus 66-70, gemmeus 71, mirandus 62-66.  
 niRehn, Tr. Amer. Ent. Soc. 55, 1929.
- Hylotomomyia buckelli*  
 nCurran, Can. Ent. 58, 216, 1926.
- Hylotrupes bajalus*  
 Champlain, Kirk & Knull, Ent. News 36, 108, 1925.
- Hylotrupes ligneus*  
 Frost, Brklyn. Ent. Soc. B. 24, 154, '29.
- Hylurgopinus rufipes*  
 Peirson, Me. For. Serv. B. 5, 58, 1927.
- Hylurgops pinifex*  
 iPeirson, Me. For. Serv. B. 5, 109, 1927.
- Hylurgops subcostulatus*  
 Keen, Cal. Dept. Nat. Resources B. 7, 57, 1928.
- Hymenia fascialis* (Hawaiian beet web-worm)  
 Watson, Fla. Dept. Agr. Quar. B. 39: 3, 66-67, 1929.
- Hymenia perspectalis* (Spotted beet web-worm)  
 Watson, Fla. Dept. Agr. Quar. B. 39: 3; 66, 1929.
- Hymenolepis carioca*  
 IJones, Science 68, 512-513, 1928.
- Hymenoptera*—Acad. Nat. Sci. Phila.—Types; Cresson, Amer. Ent. Soc. Mem. 5, 1-90, 1928.
- Hymenoptera*—Aquatic  
 Hoffmann, Brklyn. Ent. Soc. B. 20, 93, 1925.

- Hymenoptera—Barbados-Antigua Expedition;** Viereck, Univ. Iowa Stud. Nat. Hist. 11; 4, 7-11, 1925.
- Hymenoptera—Fat body**  
ibSchmiedler, J. Morphology & Physiology 45, 121-185, 1928.
- Hymenoptera of France, by L. Berland—Review**  
Howard, Science 63, 166-167, 1926.
- Hymenoptera—Leaf-mining habits**  
biFrost, Ann. Ent. Soc. Amer. 18, 399-414, 1925.
- Hymenoptera—Lloyd—Cornell Reservation;** Bradley, Lloyd Library B. 27, 165-176, 1926.
- Hymenoptera—Mouth parts**  
biLiu, Ann. Ent. Soc. Amer. 18, 445-454, 1925.
- Hymenoptera—N. Y. St. Museum**  
bFelt, N.Y. St. Mus. B. 274, 177-197, '28.
- Hymenoptera—Parasitic**  
Gahan, P.U.S.N.M. 71; 4, 1928, 39 p.  
Howard, Ent. News 36, 129-133, 1925.  
Kamal, J. Ec. Ent. 19, 721-730, 1926.
- Hymenoptera—Polyembryonic**  
bLeiby, Ann. Ent. Soc. Amer. 19, 290-299, 1926.
- Hymenoptera—Wing venation**  
iForbes, Ann. Ent. Soc. Amer. 18, 22-28, '25.
- Hymenorus densus**  
bBrues, Amer. Nat. 60, 526-545, 1926.
- Hymenorus obscurus**  
Watson, Fla. B. 183, 401, 1926.
- Hymetta arizoniana** 90, **balteata** 89, **distincta** 87-88, **kansasensis** 90  
niFairbairn, Kans. Ent. Soc. J. 1, 1928.
- Hypera punctata (Clover leaf-weevil)\***  
Iddings, Ida. B. 135, 28, 1925.  
iLarrimer, U. S. F. B. 1484, 1926, 6 p.  
Ross, Ont. Dept. Agr. R. f. 1925, 7, '26.  
Wolcott, Porto Rico Dept. Agr. J. 9: 1; 47, 1925.
- Hyperalonia oenomaus**  
biClausen, Annals Ent. Soc. Amer. 21: 642-659, 1928.
- Hyperanthidium beniense**  
nCockerell, P.U.S.N.M. 71: 12, 9, 1927.
- Hyperaspis jovialis**  
nFall, Can. Ent. 57, 311-312, 1925.
- Hyperaspis lateralis**  
biSteinweden, Pan-Pac. Ent. 6, 28, 1929.
- Hyperchiria io, see Automeris io**
- Hyperetis nyssaria**  
Peirson, Me. For. Serv. B. 5, 36, 1927.
- Hypermallus villosus (Apple twig pruner, Oak twig pruner)**  
Flint, No. Nutgrowers Assoc. R., 16, 111-112, 1925.
- iLeiby, N. C. Dept. Agr. B. Feb. 1925, 56-57.
- Peirson, Me. For. Serv. B. 5, 93, 1927.
- Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 42, 1926.
- Hyperodes annulipes**  
Blatchley, J. N. Y. Ent. Soc. 33, 88, '25.
- Hyperodes carinatus**  
Blatchley, J.N.Y. Ent. Soc. 36, 242-243, 1928.
- Hyperplatys griseomaculatus**  
nFisher, PUSNM 68; 22, 28-30, 1926.
- Hyphantria cunea (Fall webworm)\***  
ilbBaerg, Ark. B. 224, 16-25, 1928.  
Baerg, Ark. Pecan Grow. Assoc. Proc. 3, 21-22, 1929.
- Bailey, Comm. Agr. Vt. Bien. R. 13, 65, 1926.
- Bell, Rur. N. Y. 85, 996, 1926.
- Bratley, Nat. Pecan Gr. Assoc. Proc. 24, 66-67, 1925.
- Brittain, Proc. Acad. Ent. Soc. 10, 36-38, 1925.
- iBrittain, N. S. Dept. Nat. Resource B. 12, 27-28, 1927.
- iBritton & Zappe, Conn. B. 292, 120, '27.
- Cory, Northern Nut Grow. Assoc. Ann. meeting 18, 48, 1927.
- ideGryse, Can. Dept. Agr. Ent. Br. Pam. 47 n.s. rev. ed. 8, 1925.
- Eddy, Ohio J. Sci. 27, 199, 1927.
- iEssig, Insects of Western No. Amer. 1926, 677-678.
- Fernald, Applied Ent. ed. 2, 281-282, '26.
- biKinney, Biol. B. 51, 405-434, 1926.
- ilLeiby, N. C. Dept. Agr. B. Feb. 1925, 26-27.
- Peirson, Me. For. Serv. B. 5, 27-28, '27.
- Petch & Armstrong, Quebec Soc. Protec. Plants R. 17, 74, 1925.
- Robinson, Prog. Farm. 44: 1010, 1929.
- Spittall, Proc. Acad. Ent. Soc. 10, 64-65, 1925.

***Hyphantria cunea* Cont'd**

iSwaine & Hutchings, Can. Dept. Agr.  
Ent. B. 28, 22-23, 1926.

iWoodard, Texas Dept. Agr. B. 81, 177-  
178, 1925.

Woodward, et al, Tex. Dept. Agr. B. 95,  
147, 1929.

***Hyphinoe inermis***

nGoding, Tr. Amer. Ent. Soc. 52, 107, '26.

***Hyphinoe yaguachiensis***

nGoding, N. Y. Ent. Soc. Jour. 37, 11-12,  
1929.

***Hypnoidus extricatus*—Alaska**

nFall, Pan-Pac. Ent. 2, 191-193, 1926.

***Hypochoaeta* spp.**

bAldrich, Proc. Ent. Soc. Wash. 28, 143-  
145, 1926.

***Hypocixius*—n. gen., oblitescens**

nCockerell, Amer. J. Sci. 11; 66, 501-502,  
1926.

***Hypocrabro stirpicolus* (Fly-catcher)**

Rau, St. Louis Acad. Sci. Tr. 25, 381-  
387, 1928.

***Hypoderma bovis* (Ox warble, Northern cattle grub)\***

Barnes, Breeder's Gaz. 90, 173, 1926.

iBishopp, Breeder's Gaz. 89, 435, 1926.

Bishopp, J. Wash. Acad. Sci. 18, 107-  
108, 1928.

iBrittain, N. S. Dept. Nat. Resource B.  
12, 101-102, 1927.

ibCase, Va. Tech. B. 39, 1929, 12p.

Duckwall, Breeder's Gaz. 90, 288-289,  
1926.

Hadwen, Bur. Farm. 5; 11, Wash. St.  
Farm Bur. News Sept. 1929, 23.

Hearle, Ont. Ent. Soc. R. 59, 35, 1929.

Hermes, J. Parasitol. 11, 149-150, 1925.

bImes, J. Parasitol. 13, 42-46, 1926.

iKelly, Kans. Ext. B. 62, 29-33, 1929.

ibMote, Ohio B. 428, 1928, 45p.

ibMote, Ann. Ent. Soc. Amer. 22, 70-80,  
1929.

iReynolds, Holstein Breeder & Dairy-  
man, 7, 229-230, 1928.

W. E. W. J. Agr. Hort. 32, 81, 1928.

Webb, Amer. Leather Chem. Assoc. J.  
20: 10, 453-456, 1925.

iCornell, Rur. School L. 18; 3, 20-21, '25.

***Hypoderma bovis*—Losses**

— North Amer. Vet. 10; 9, 29, 1929.

***Hypoderma lineatum* (Common cattle grub)\***

Barnes, Breeder's Gaz. 90, 173, 1926.

iBishopp, Breeder's Gaz. 89, 435, 1926.

Bishopp, Breeder's Gaz. 90, 7-8, 1926.

iBishopp, The Producer 8: 8, 5-8, 1927.

ibBishopp, et al, USDAB. 1359, 1926, 120p.

iBishopp, et al, USDA FB 1596, 1-22, '29.

iBrittain, N. S. Dept. Nat. Resource B.  
12, 101-102, 1927.

ibCase, Va. Tech. B. 39, 1929, 12p.

Fernald, Applied Ent. ed. 2, 321, 1926.

Hearle, Ont. Ent. Soc. R. 59, 35, 1929.

ihHerrick, Rur. N. Y., 88, 834, 1929.

Lanford & Warner, New Orleans Med.  
& Surg. J. 77, 473, 1925.

Marlatt, USDA Ent. R. f. 1929, 26-27.

ibMote, Ohio B. 428, 1928, 45p.

Wegner, Wash. Farm. 58, 676, 1928.

***Hypoderma lineatum*—Losses**

iBishopp, Dairy Farm. 24: 14, 6-7, 1926.

***Hypoderma* spp.**

iBishopp, Dairy Farm. 25; 3, 30-34, 1927.

iCory, et al, Md. Ext. C. 62, 1927, 7p.

***Hypoderma* spp.—Losses**

Drake, The Farmer, St. Paul 43, 536, '25.

***Hypoethonius rufulus***

Miller, Ohio B. 386, 144, 1925.

***Hypophloeus praetermissus*—Alaska**

nFall, Pan-Pac. Ent. 2, 199-201, 1926.

***Hypoapta centrosoma***

nDyar, Ins. Insc. Mens. 13, 19, 1925.

***Hypopteromalus inimicus***

nMuesebeck, J. Agr. Res. 34, 332-333, '27.

bMuesebeck & Dohanian, U. S. D. A. B.  
1487, 28, 1927.

***Hypopteromalus tabacum***

bMuesebeck & Dohanian, U. S. D. A. B.  
1487, 28, 1927.

***Hyposoter disparis***

ilhBurgess & Crossman, U. S. D. A. Tech.  
B. 86, 49-52, 104, 1929.

***Hyposoter exiguae***

Swezey, J. Ec. Ent. 19, 720, 1926.

***Hyposoter fugitivus*—Generic position**

Cushman, Proc. Ent. Soc. Wash. 27,  
165-166, 1925.

***Hyposoter pilosulus*—Tentative position**

Cushman, Proc. Ent. Soc. Wash. 27,  
166, 1925.

***Hyposoter* spp.—Key**

Viereck, Can. Ent. 57, 203-204, 1925.

- Hypostena alberta* 154, *columbia* 153-154, *imitator* 154, *impatiens* 154-155, *ouelleti* 150-151, *tothilli* 152-153, *vexans* 151-152; nCurran, Can. Ent. 57, 1925.
- Hypothereutes* spp.—Key  
Viereck, Can. Ent. 57, 204, 1925.
- Hypselosoma boops*  
nMcAtee & Malloch, PUSNM 67; 13, 32, 1926.
- Hypsoprora aspera*  
niHaviland-Brindley, Zoologica, N. Y. 6, 242, 1925.
- Hypulus californicus*  
nVan Dyke, Brklyn. Ent. Soc. B. 23: 253-255, 1928.
- Hyssia stellipars*  
nDyar, Pan-Pac. Ent. 4, 7-8, 1927.
- Hyssopus rhyacioniae*  
nGahan, J. Agr. Res. 34, 546-547, 1927.
- Hysteroneura setariae* (Rustypium aphid)\*  
Cutright, Ohio B. 387, 197-198, 1925.  
lSnapp, U. S. F. B. 1557, 38, 1928.
- Hystricophora decorosa*  
niHeinrich, PUSNM 74; 8, 20-21, 1929.
- Ibidion polingi*  
nFall, Brklyn Ent. Soc. B. 20, 182-183, '25.
- Icerya purchasi* (Cottony-cushion scale)\*  
Bruner & Arango, R. de Agr. Cuba 9, 41-42, 1927; 10, 30-31, 1928.  
iDelcurto, Halstead & Halstead, Tex. Dept. Agr. B. 79, 87-91, 1925.  
DelCurto, Tex. Com. Agr. R. f. 1927-28, 43-44.  
Fernald, Applied Ent. e l. 2, 221-222, '26.  
iHume, Cultivation of Citrus Fruits, 1926, 442-444, 1926.  
Leiby, N. C. Dept. Agr. Bien. R. 1926-28, 43-44, 1929.  
iPena, La Hacienda 22, 280, 1927.  
Schrader, Science 63, 500-501, 1926.  
Watson, Citrus Industry 4; 7, 10, 1923.  
Watson, Fla. B. 183, 332-333, 1926.
- Icerya purchasi*—Parasites  
iHinds, La. Ext. C. 122, 13, 1929.  
Hughes-Schrader, Science n.s. 63, 500-501, 1926.
- Icerya purchasi*—Wax secreting mechanism  
iMurdock, Pan-Pac. Ent. 5, 71-75, 1928.
- Icerya similis*  
nMorrison, Proc. Biol. Soc. Wash. 40, 108-109, 1927.
- Ichneumon*  
iWoodard, Texas Dept. Agr. B. 81, 181-182, 1925.
- Ichneumonidae*—Australian  
Girault, Ins. Insc. Mens. 13, 35, 1925.
- Ichneumonidae*—Synonymy  
Cushman, J. Wash. Acad. Sci. 15, 388-392, 1925.
- Ichneumonidae*—Taxonomic notes  
Cushman, PUSNM 76: 25, 1929. 18p.
- Ichneumonidae*—Types of parasitism  
iCushman, Proc. Ent. Soc. Wash. 28, 25-51, 1926.
- Ichneumonoidea*  
niVioreck, Can. Ent. 57, 71-78, 1925.
- Idiocelyphus*—n. gen., *bakeri*  
nMalloch, U. S. N. M. P. 74: 6, 5-6, 1929.
- Idiocentrus*—n. gen., *mirus*  
nGahan, PUSNM 71; 4, 35-37, 1928.
- Idioderma* gen.  
Metcalf & Bruner, Brklyn. Ent. Soc. B. 20, 206, 1925.
- Idioderma picta*  
nOsborn, Ann. Ent. Soc. Amer. 19, 360-361, 1926.
- Idiosomidea* n. gen., *secunda*  
Vioreck, Roy. Soc. Canada Tr. ser. 3, sec. 5, v. 19, 271-272, 1925.
- Idiotettix boliviana* 466, *brunneus* 467, *fasciatus* 466-467, *magnificus* 465-466; Osborn, Ann. Ent. Soc. Amer. 22: 1929.
- Idiotypa pallipes*  
nFouts, Proc. Ent. Soc. Wash. 27, 102-103, 1925.
- Illacme*—n. gen., *plenipes*  
nCook & Loomis. P. U. S. N. M. 72; 18, 10-12, 1928.
- Illice nexa*  
Flanders, Pan-Pac. Ent. 2, 158, 1926.
- Illice pacata*  
nSchaus, Proc. Ent. Soc. Wash. 31, 45-46, 1929.
- Illinoia californica*  
Soliman, Cal. Univ. Pub. Ent. 4; 6, 95, 131, 1927.
- Illinoia creeli*, see *Illinoia solanifolii* (Potato aphid)\*

- Illinoia cucurbitae, granarium, orthocarpus*; iSoliman, Cal. Univ. Pub. Ent. 4; 6, 131-132, 1927.
- Illinoia pisi* (Pea aphid)\*  
 Barre, S. C. R. 38, 51-55, 1925.  
 iCaesar, Ont. Dept. Agr. B. 325, 52-53, '27.  
 biCampbell, J. Agr. Res. 32, 861-881, '26.  
 Cory, Md. Agr. Soc. R. 378-380, 1924.  
 Cory & Potts, Md. B. 261, 122, 133, '24.  
 ibDoolittle & Jones, Phytopathology 15, 763-771, 1925.  
 Dudley, Canning Age 6, 249-250, 1925.  
 Dudley et al, Internat. Cong. Ent. 4, Tr. 2, 608-621, 1929.  
 biFluke, Wis. Res. B. 93, 1929, 47 p.  
 Friend & Walden, Conn. B. 265, 319, 1925.  
 Headlee, N. J. C. 178, 6-7, 1925.  
 Howard, U.S.D.A. Ent. R. f. 1926, 16.  
 Mote, Oreg. C. 65, 22, 1926.  
 Packard & Campbell, J. Ec. Ent. 19, 752-761, 1926.  
 bPatch, Me. B. 337, 1927, 20 p.  
 iPettit, Mich. Sp. B. 183, 23-25, 1929.  
 Severin, So. Dak. Ent. R. 15, 15, 1924.  
 bSmith & Davis, J. Agr. Res. 33, 47-57, 1926.  
 iSoliman, Cal. Univ. Pub. Ent. 4; 6, 132-133, 1927.  
 Throckmorton, Country Gentleman 93; 6, 94, 1928.  
 Walden, Conn. B. 275, 295-298, 1926.  
 Watson, Fla. Dept. Agr. Quar. B. 39, 3; 115, 1929.
- Illinoia pisi*—Aphidozer  
 Dudley, The Canner 59; 20, 25-27, '24.
- Illinoia pisi*—Collecting machine—On peas  
 Dudley, Canning Age 6, 249-250, 1925.
- Illinoia pisi*—Parasites  
 Fluke, J. Ec. Ent. 18, 612-616, 1925.  
 Russell, Morrison & Ebling, Wis. B. 388, 70-72, 1926.
- Illinoia pteridis, rhamni*  
 iSoliman, Cal. Univ. Pub. Ent. 4; 6, 133, 134-135, 1927.
- Illinoia solanifolii* (Potato aphid)\*  
 Gorham, Ont. Ent. Soc. R. 59, 7, 1929.  
 Pettit, Mich. Sp. B. 183, 32-33, 1929.  
 Quaintance & Baker, U. S. F. B. 1128, rev. Apr. 1926, 11.
- iSoliman, Cal. Univ. Pub. Ent. 4; 6, 133-134, 1927.  
 Watts, Cal. Cult. 66, 297, 1926.
- Illinoia stanleyi* (Tulip aphid), *tulipae*  
 iSoliman, Cal. Univ. Pub. Ent. 4; 6, 134, 1927.
- Ilnacorella argentata* 94, n. gen., 91-92, *nigrisquamosa* 92-93, *sulcata* 93  
 nKnight, Can. Ent. 57, 1925.
- Ilybius*—North American species  
 Fall, Ent. News 38, 281-285, 1927.
- \*Imbricated snout beetle, *see* *Epicaerus imbricatus*
- \*Imperial moth, *see* *Basilona imperialis*
- \*Imported cabbage worm, *see* *Pieris rapae*
- Imported currant borer, *see* *Aegeria tipuliformis*
- \*Imported currant worm, *see* *Pteronidea ribesii*
- Imported pine sawfly, *see* *Diprion simile*
- Imported willow leaf-beetle, *see* *Plagiodera versicolora*
- Inareolata punctoria*  
 niEllinger & Sachtleben, Internat. Corn Borer Invest. Sci. R. 1, 116-118, '28.  
 Hergula, Internat. Corn Borer Invest. Sci. R. 2, 115-117, 1929.
- Incamiya chilensis, spinicosta, striata*  
 nAldrich, PUSNM 74; 1, 15-17, 1928.
- Incisalia nippon*  
 Mousley, Canadian Field-Nat. 42, 25-29, 1928.
- Incolea, n. gen., variegata, viridis*  
 nGoding, J.N.Y. Ent. Soc. 34, 280, 1926.
- Inconspicuous whitefly, *see* *Bemisia inconspicua*
- \*Indian-meal moth, *see* *Plodia interpunctella*
- Indotritia, see* *Euphthiracarus*
- Indusia comminuta, sequoiae*  
 niCockerell, PUSNM 68; 5, 4, 1925.
- Infestation index—Fruit pests  
 iFlanders, J. Ec. Ent. 20, 544, 1927.
- Inflated caterpillars—Collection of  
 iEngelhardt, Brooklyn Ent. Soc. B. 22, 212, 1927.
- Inheritance in aphids  
 bEwing, Amer. Nat. 59, 311-326, 1925.
- Injection experiments for insect control  
 Hollister & Jacobs, J. Ec. Ent. 21, 198-200, 1928.

**Inscudderia gen., strigata**

iHebard, Tr. Amer. Ent. Soc. 51, 321-330, 1925.

**Inscudderia walkeri**

nCaudell, Wash. Ent. Soc. Proc. 31, 12-13, 1929.

niHebard, Tr. Amer. Ent. Soc. 51, 323-326, 1925.

**Insect bionomics**

Doane, Ann. Ent. Soc. Amer. 20, 436-438, 1927.

**Insect bites and stings**

Dowling, La. St. Bd. Health Quar. B. 17, 205, 1926.

Ewing, Am. J. Pharm. 100, 534-540, '28.

ibEwing, Amer. J. Trop. Med. 8, 39-42, 1928.

Felt, N. Y. St. Mus. B. 274, 10-12, 1928.

Gaston, Mich. Sci. B. 160, 1927, 42 p.

**Insect boxes—lining—Celotex**

Gunder, Ent. News 37, 152, 1926.

**Insect cages**

iPrell, J. Ec. Ent. 20, 830-834, 1927.

Seamans, Can. Ent. 50, 27, 1926.

Smith, J. Ec. Ent. 22, 705, 1929.

— J. N. Y. Ent. Soc. 35, 51, 1927.

**Insect collections—American museums**

Osborn, Ann. Ent. Soc. Amer. 22, 153-157, 1929.

**Insect collections—Bowditch collection**

Banks, Ent. News 38, 79, 1927.

**Insect collections—Brooklyn museum**

C. S., Brooklyn Mus. Quar. 15, 13-18, 1928.

**Insect collections—California**

Van Duzee, Internat. Cong. Ent. 4, Tr. 2, 801-802, 1929.

**Insect collections—Canadian**

McDunnough, Can. Field Nat. 40, 36-40, 1926.

**Insect collections—Disposition**

Rohwer, Ent. News 38, 157-158, 1927.

Leng, J. N. Y. Ent. Soc. 34, 287, 1926.

**Insect collections—State**

Harned, J. Ec. Ent. 21, 59-84, 1928.

**Insect control**

Bailey, Vt. Agr. Bien. R. 14, 82-92, 1928

Barnes, Amer. Home 1, 410, 1929.

Braunton, Cal. Cult. 70, 228, 1928.

Briggs, Guam B. 2, 18-19, 1922.

Britton, Conn. Pomol. Soc. Proc. 34, 48-55, 1925.

Brooks, Fla. Dept. Agr. Quar. B. 39: 3 1929, 275 p.

Burr, Neb. R. 38, 1925, 18-19.

Burr, Neb. R. 39, 17-18, 1926.

Burr, Neb. Ann. R. 42, 21-22, 1929.

Cardinell, Mich. Hort. Soc. R. f. 1922: 22-26, 1923.

Carpenter, Flower Grow. 11, 496, 1924.

Chambers, Wis. Hort. 19, 178-179, 1928.

Chambers, Wis. Hort. 20, 88-89, 1929.

Chenoweth, Cal. Cult. 71, 280, 1928.

Christie, Ind. Ext. R. 17, 40, 1928.

Clark, Agr. Insect & Fung. Mfg. Assoc. B. 5, 19-21, 1926.

Compton, Tr. Ill. Hort. Soc. 61, 326-336, 1927.

Compton, Florists' Rev. 63: 1628; 104-110, 1929.

Cooper, Flower Grow. 16, 376, 1929.

Cunningham, Bermuda Agr. Dept. B. 7, 3-4, 1928.

iDarrow, St. Nicholas 55, 817-821, 1928.

iDavis, Horticulture enterprises, 1929, 466 p.

Davis, Purdue & Porter, Hoosier Hort. 7, 126, 1925.

DeOng, Cal. Cult. 37, 1929.

iDougherty, Pop. Mech. 46, 97-99, Jl. 1926.

Essig, Cal. Cult. 64, 585, 1925.

iEssig, Sci. Mo. 28, 499-506, 1929.

Evans, Agr. J. B. C. 10, 4, 1925.

Flint, Ann. Ent. Soc. Amer. 20, 454-456, 1927.

iFracker, Wis. Blue Book, 1927, 310-312

Garman, Fla. Quar. B. 38: 4, 60-66, 1928.

iGoode, Success. farming 25:5, 30, 1927.

Greeves-Carpenter, House B. 65, 322, Mar. 1929.

Harman, Mich. St. Bd. Agr. R. 65, 203-204, 1926.

Haseman, Mo. Farm. 21, 457, 1929.

Haskins, Citrus Industry 3; 3, 7, 1922.

Herms, J. Ec. Ent. 22, 47, 1929.

iHood, Horticulture-Elementary & Practical ed. 3, 1929, 113-115.

Howard, Cal. Cit. 11; 1, 1, 1925.

Howard, USDA Ent. R. f. 1925, 31-32.

ilJohnson, Am. Dyestuff Rep. 14: Jan. 12, 1925, 10-13.

Knowlton, Conn. Health B. 43, 273, '29.

**Insect control** *Cont'd*

- Marlatt, Atlantic Mo. 135: 775-785, '25.  
 Marlatt, South Flor. & Nursym. 28; 11, 12, 1929.  
 iMelander, Am. Fruit Grower, 46, F. 1926, 7.  
 Mercier, La. Ext. C. 120, 50-53, 1929.  
 Metcalf, Ont. Ent. Soc. R. 55, 30-46, 1925.  
 Metcalf, Amer. Flor. 69: 2065, 7-8, 1927.  
 Mote, Oreg. C. 65, 5-7, 1926.  
 Parfentjev, Internat. Cong. Ent. 4, Tr. 2, 836-847, 1929.  
 Parker, Fertilizer, Feeding-Stuffs & Farm Supplies J. 10, 593-594, 1925.  
 iPeet, Fruit Indust. 1; 456-460, 1929.  
 Pepper, S. C. Clemson Col. Wkly. News Notes, 14; 33, 1925.  
 Pettit, The Canner, 62; 18, 26, 1926.  
 iPhipps, Me. Ext. C. 100, 1929, 5 p.  
 Porter, Hoosier Hort. 7, 126, 1925.  
 Porter, Hoosier Hort. 7, 143-144, 1925.  
 Priestly, Sat. R. 143: 819-820, My. 28, 1927.  
 iQuaintance & Baker, U. S. F. B. 1128: rev. 1926, 1-34.  
 Raine, MacLean's Mag. 38; 17, 20, 1925.  
 Richardson, USDA YB 1927, 389-393, 1928.  
 Rockwell, House & Gard. 51, 196, April, 1927.  
 Ryan, Los Angeles Co. Hort. Com. R. f. 1925, 6-12.  
 Sabini, Idaho St. Hort. Assoc. Proc. 24, 16-18, 1924.  
 iSherwood, W. Va. Ext. C. 269 Rev. 1926, 30 p.  
 Slate, Conn. B. 298, 118-121, 1928.  
 Van Buren, N. Y. Dept. Agr. & Markets C. 373, 1928, 88 p.  
 Van Eaton, Farm & Ranch, 45; 17, 21, 1926.  
 iVickery & Browne, Handbook of Pest Control, 1929, 192 p.  
 Whitehead, J. Ag. (Quebec) 33: 82, D. 1929.  
 iWilson, Insects and Their Control, 1929, 342 p.  
 Woglum, Cal. Cit. 9, 342-343, 1925.  
 Woglum, Cal. Cit. 10, 178, 298, 1925; 11: 71, 1925; 11, 166-167, 238-239, 1926.

**Insect control—Biological method—Commercial development**

Smith, J. Ec. Ent. 18, 147-152, 1925.

**Insect control—By radio**

Ray-dio Ray Corp., Better Fruit 27; 9, 17, 1929.

**Insect control—Calif.**

Gorton, Cal. Cult. 66, 591, 1926.

Woglum, Cal. Cit. 11, 26-27, 1925; 11, 106-107, 166-167, 264, 1926.

**Insect control—Electricity**

Compton, Better Fruit, 23; 3; 12-13, 1928.

—Amer. Agr. 121, 619, 1927.

—Seald-Sweet Chron. 5; 6, 3, 1929.

**Insect control—Environment essentials**

iDavis, Am. Fr. Gr. Mag. 46; 2, 3, 1926.

Davis, Hoosier Hort. 8, 48-49, 1926.

Townsend, Ecology 7, 326-337, 1926.

Felt, N. Y. Hort. Soc. Proc. 71, 150-154, 1926.

iFlint, Amer. Fruit Grower 46; 9, 3, 1926.

**Insect control—Guaranteeing**

Safro, Cal. Cit. 11, 444-445, 1926.

**Insect control—Injection of poison in trees**

Hollister & Jacobs, J. Ec. Ent. 21, 198-200, 1928.

**Insect control—Necessity of**

Howard, Indus. Eng. Chemistry 21, 806, 1929.

**Insect control—Patents**

Doak, Purdue Agr. 23, 123, 1929.

Roark, U. S. D. A. Chem. & Soils. Rev.

U. S. Patents Pest Control 1, Jan, '28.

**Insect control—Role of vertebrates in**

iMcAtee, Smithsonian Inst. R. f. 1925, 415-436, 1926.

**Insect control—Vacuum**

bBack & Cotton, J. Agr. Res. 31, 1035-1041, 1925.

**Insect devastations**

Transeau, Ecology 8, 285-288, 1927.

**Insect drift—Along Littoral**

Felt, N. Y. St. Mus. B. 274, 81-82, 1928.

**Insect ecology**

bAllee, Ann. Ent. Soc. Amer. 20, 439-444, 1927.

ibBlake, Ill. Biol. Mon. 10: 4, 1926. 150 p.

Chapman, Insect Ecology, 1925, 187 & 183 p.

Chapman, Animal ecology, 1926, 187-183 p.

- Chapman, Internat. Cong. Ent. 4, Tr. 2, 408-411, 1929.
- Pearse, Animal Ecology. 1926. 417 p.
- bShackleford, Ecol. 10, 126-153, 1929.
- iShelford, Laboratory & Field Ecology, 1929, 608 p.
- biSmith, Ecology 9, 479-500, 1928.
- Insect Ecology—Illinois elm-maple forest**  
Weese, Ill. Biol. Mon. 9; 4, 1924, 93 p.
- bWolcott, Proc. Ent. Soc. Wash. 29, 62-65, 1927.
- Insect Ecology—Sand dune**  
bChapman et al, Ecology 7, 416-426, '26.
- Insect ecology—Sheltered clay bank**  
iRau, St. Louis Acad. Sci. Tr. 25, 157-260, 1927.
- Insect ecology—Tropical rain forest**  
bAllee, Ecology 7, 445-468, 1926.
- Insect ecology—Yellowstone trout streams**  
ibMuttkowski, Roosevelt Wild Life Ann. 2, 155-240, 1929.
- Insect eggs—Artificial fertilization**  
Wiebe, Ann. Ent. Soc. Amer. 18, 45-48, 1925.
- Insect eggs—Oxygen consumption**  
ibMelvin, Biol. B. 55, 135-142, 1928.
- Insect engineers (Ants)**  
Thompson, Nat. Mag. 8, 154, 1926.
- Insects—First from North America—Phileurus valgus**  
Rohwer, Ent. News 38, 301, 1927.
- Insect forecast**  
Chapman, J. Ec. Ent. 21, 349-352, 1928.  
Kelsall, N. S. Fr. Grow. Assoc. R. 64, 16-17, 1927.
- Insect head—Morphology**  
ibSnodgrass, Sm. Misc. Col. 81: 3, 1928. 158 p.
- Insect illustrators—Hoppin**  
Weiss, Ent. News 36, 257, 1925.
- Insect infested cereal—Supposed toxic?**  
Cady, J. N. Y. Ent. Soc. 36, 199, 1928.
- Insect labels—Photographic**  
iHiestand, Ent. News 39, 89-91, 1928.  
Knight, Ent. News 39, 178-180, 1928.
- Insect life dominance vs. horticulture**  
Hungerford, Kans. St. Hort. Soc. Tr. 38, 56-60, 1926.
- Insect metabolism**  
biBodine, Biol. B. 55, 395-403, 1929.  
biFink, J. Gen. Physiol. 7: 4, 527-543, 1925.  
biFink, J. Ec. Ent. 20, 794-801, 1927.
- Insect metabolism—Apparatus for study**  
iHeadlee, J. N. Y. Ent. Soc. 37, 25-30, '29.  
biSayle, Quart. Rev. Biol. 3, 542-553, '28.  
Thone, Sci. News Letter 15, 209-212, '29.  
Welch, Annals Ent. Soc. Amer. 21, 476-488, 1928.
- Insect metal workers**  
iSnyder, Nat. Mag. 8, 277-280, 1926.
- Insect mounts**  
Lewis, J. Ec. Ent. 22, 980-982, 1929.
- Insect musicians**  
iAllard, Country Gentlem. 92; 2, 22, 23, 24, 1927.  
Allard, Smithsonian. R. f. 1928, 563-591, 1929.  
Howes, Nat. Mag. 8, 155-157, 1926.  
iLaufer, Field Mus. Nat. Hist. Anthropol. Leaf. 22, 1927, 27 p.  
Reynolds, St. Nicholas 53, 809-810, '26.  
iSnodgrass, Smithsonian Inst. R. f. 1923, 405-452, 1925.
- Insect net**  
iWilson, J. Ec. Ent. 18, 546-547, 1925.
- Insect nutrition & metabolism**  
bMuttkowski, Ann. Ent. Soc. Amer. 22: 552-554, 1929.  
Phillips, J. Ec. Ent. 22: 823, 1929.
- Insect occurrence—Degree, determination**  
iMcGregor, Pan-Pac. Ent. 3, 1, 29-33, '26.
- Insect olfactometer**  
iMcIndoo, J. Econ. Ent. 19, 545-571, '26.
- Insect outbreaks**  
ibCook, U. S. Mon. Weather Rev. 56, 103-106, 1928.  
Fracker, Wis. Dept. Agr. B. 69, 95, 1924.  
Peirson, Me. For. Serv. B. 5, 16-20, 1927.  
Sherman, N. C. R. 47, 66, 1924.
- Insect pest list**  
Kent, Cal. Dept. Agr. Sp. Pub. 85, 115-117, 1928.  
Stephens, Cal. Dept. Agr. Sp. Pub. 85, 117-118, 1928.
- Insect pest survey**  
Dozier, Del. B. 152, 25, 1927.  
Fracker, Wis. Dept. Agr. B. 69, 95-97, 1924.  
Hyslop, J. Ec. Ent. 20, 717-725, 1927.  
Leiby, N. C. Dept. Agr. Bien. R. f. 1926-28, 42, 1929.  
Linfield, Mont. R. 34, 96, 1927.  
Motherwell, Can. Min. Agr. R. f. 1929, 125-130, 1929.



**Insect pest survey** *Cont'd*

Sherman, J. Elisha Mitchell Sci. Soc.  
41, 129-134, 1925.

Sherman, N. C. R. 47, 69-72, 1925.

Smith, Jamaica Agr. Dept. Ann. R. f.  
1928, 20-21, 1929.

Twinn, Ont. Ent. Soc. R. 58, 67-69,  
1928.

**Insect photography**

iKeen, Photo Era 61, 76-78, Aug. 1928.

iKeil, Nat. Mag. 11, 168-171, Mar. '28.

iKlugh, Amer. Photography 20, 384, '26.

iWalden, Conn. B. 265, 321-331, 1925.

**Insect phylogeny**

iCalvert, Internat. Cong. Ent. 4, Tr. 2,  
919-925, 1929.

biCrampton, J. N. Y. Ent. Soc. 37, 453-  
512, 1929.

Myers, Psyche 33, 92-95, 1926.

**Insect physiognomy**

Wheeler, Quart. Rev. Biol. 2, 1-36, '27.

**Insect population of the air**

Felt, N. Y. St. Mus. B. 274, 65-67, '28.

Felt, Internat. Cong. Ent. 4, Tr. 2, 869-  
872, 1929.

**Insect scatology**

bFrost, Ann. Ent. Soc. Amer. 21, 36-46,  
1928.

**Insect scourges**

Haseman & Sullivan, Mo. B. 236, 52,  
1926.

**Insect societies vs. Human**

bCrowell, Psyche, 36, 182-189, 1929.

**Insect species—Index to literature**

Cresson, Internat. Cong. Ent. 4, Tr. 2,  
484-488, 1929.

**Insect stories & nature fakes**

iMaddox, Hygeia 4, 689-691, Dec. 1926.

**Insect superstitions**

———Nat. Mag. 14, 255, O. 1929.

**Insect swarms—Causes**

Felt, N. Y. St. Mus. B. 274, 87-88, '28.

**Insect tissue—Arsenic**

iFink, Jour. Biol. Chem. 72 (2): 737-  
743, 1927.

**Insect toxicology**

bCampbell, J. Agr. Res. 32, 359-366, '26.

Campbell, Science 63, 45-46, 1926.

Parfentjev, Internat. Cong. Ent. 4, Tr.  
2, 857-864, 1929.

**Insect types—Ill. St. Lab. Nat. Hist.**

Frison, Ill. Nat. Hist. Surv. B. 16: 4,  
137-309, 1927.

**Insect world—Wonders**

iShowalter, Nat. Geog. Mag. 56, 1-27,  
Jl. 1929.

**Insect zoo**

Lutz, Nat. Hist. N. Y. 26, 111-123, '26.

———Lit. Dig. 96: 58, Mar. 31, 1928.

———Nation 120: 679-80, Je. 17, 1925.

**Insectaries—Indiana—Expt. Station**

———Hoosier Hort. 9, 111-112, 1927.

i———Citrus Leaves 9: 5, 11, 1929.

———J. Ec. Ent. 20, 762, 1927.

———Cit. Indus. 6: 10, 22, 1925.

———Nat. Mag. 6; 6, 324, 1925.

**Insecticide industry—Chemical problems**

Dickerson, Indust. & Engin. Chem. 16,  
1013-1015, 1924.

**Insecticide—Machinery**

Lathorp et al, J. Ec. Ent. 18, 416, 1925.

**Insecticide machinery subcom. rept.**

Lathrop, Garman, Fulton & Smith, J.  
Ec. Ent. 20, 223-229, 1927.

**Insecticide manufacturers, Cal. Assoc.**

———Cit. Leaves, 9; 2, 9, 1929.

**Insecticide symposium**

———J. Ec. Ent. 21, 235, 1928.

**Insecticides, see also, Dusting, fumigation**

Atwood & Van Buren, N. Y. Dept.  
Farms & Markets, C. 292, 53-55,  
1925.

Brittain, Quebec Soc. Prot. Plt. R. 20,  
11-16, 1928.

Britton, Conn. Pomol. Soc. Proc. 34, 51-  
52, 1925.

Brooks, Fla. Dept. Agr. Quar. B. 39, 3,  
19-46, 1929.

Caesar et al, Farm Advoc. 60, 444-445,  
1925.

Chipman, Chem & Metal Engin. 32, 87,  
Ja. 19, 1925.

Croucher, Sugar 30, 266-267, 1929.

Culver, Cit. Ind. 8; 9, 6-7, 1927.

Davis et al, J. Ec. Ent. 18, 410-420, '25.

Drury & Simmons, Can. Chem. &  
Metallurgy 9; 179-182, Ag. 1925.

Eddy, J. Ec. Ent. 19, 77-86, 1926.

Felt, N. Y. St. Hort. Soc. Proc. 70, 56-  
62, 1925.

- Graham, Ass'n. Offic. Ag. Chem. J. 10, 150-166, My. 1927.  
 Graham, Ass'n. Offic. Ag. Chem. J. 11, 141-147, 1928.  
 bHerman, Can. Chem. & Metallurgy 9; 134-136, Je. 1925.  
 MacDonnell, Int. R. Sci. & Prac. Agr. n.s. 3; 1198-1201, O. 1925.  
 Pickett & Martin, Kans. C. 145, 19-21, 1929.  
 Quaintance & Siegler, U. S. F. B. 908, rev. Nov. 1929, 100 p.  
 Smith, Am. Flor. 63, 1218-20, Ja. 10, 1925.  
 Smith, Soc. Chem. Indus. J. 44; 417-420, Ap. 24, 1925.  
 bTattersfield, J. Ag. Sci. 17, 181-208, Ap. 1927.  
 Wagner, Nat. Petroleum News, 17, 117-118, Ap. 1, 1925.
- Insecticides—Acme beetle bait**  
 Frisell, Flor. Exch. 65, 1289, 1927.
- Insecticides—Adhesives**  
 iDozier, J. Ec. Ent. 21, 121-124, 1928.  
 iDozier, Penin. Hort. Soc. Trans. 42, 75-79, 1929.  
 iHerrick, Rur. N. Y. 84, 410, 1925.  
 biHood, USDA Tech. B., 111, 1929, 28 p.
- Insecticides—Alcohol formalin solution**  
 Garman, J. Ec. Ent. 18, 305, 1925.
- Insecticides—Aloin**  
 Hollister & Jacobs, J. Ec. Ent. 21, 198-200, 1928.
- Insecticides—Ammoniacial copper carbonate**  
 —Can. Hort. 52, 24, 1929.
- Insecticides—Ammonium sulphate**  
 Rau, Rur. N. Y. 85, 711, 1926.
- Insecticides—Amyl salicylate**  
 Morgan & Lyon, J. Ec. Ent. 21, 189-191, 1928.
- Insecticides—Analysis**  
 Carthcart & Willis, N. J. B. 478, 1-14, 1928.  
 Gillette, Colo. Ent. C. 47, 12, 1925.  
 Hart, Indus. & Engin. Chem. Anal. ed. 1, 133-134, Jl. 15, 1929.  
 i——Colo. Ent. C. 47, 12, 1925.  
 —Maine Agr. Official Inspec. 114, 84-88, 1924.
- Insecticides—Army specification**  
 —Soap, 3; 7, 99, 1928.
- Insecticides—Arsenate of Calcium**  
 Armstrong et al, S.C.B. 223, 1925, 64 p.  
 Banks, Grace Log 5: 6, 181, 1922.  
 Caesar, Ont. Dept. Agr. B. 325, 2-3, '27.  
 Chipman, Soc. Chem. Indus. J. (Chem. & Ind.) 44, 421-422, 1925.  
 Christie, Ind. R. 40, 38, 1928.  
 Coad & Cassidy, Prog. Farm. 42, 206, '27.  
 Folsom, J. Ec. Ent. 20, 840-843, 1927.  
 Hamilton, N. J. C. 216, 13, 1929.  
 Herman, Sci. Agr. 7, 207-209, 1927.  
 Houser & Balduf, Ohio B. 388, 359, '25.  
 Hockett, N. Y. Gen. C. 113, 1-8, 1929.  
 Isely, Ark. Ext. C. 162, rev. 1926, 7 p.  
 Kelsall & Herman, Sci. Agr. 7, 207-209, 1927.  
 Kelsall & Spittall, Ont. Ent. Soc. R. 58, 69-70, 1928.  
 Linfield, Mont. Rept. 34, 94-96, 1927.  
 Morrow, South. Planter 90; 17, 6, 1929.  
 iPettit, Mich. Sp. B. 183, 30, 1929.  
 Robertson, B. C. Dept. Agr. R. 19, K 25, 1925.  
 iRobinson, Ala. Poly. C. 51, 1926, 11 p.  
 Robinson, Ala. R. 38, 23, 1927.  
 Robinson & Arant, Ala. Poly. C. 52, 3-15, 1929.  
 Walker, J. Ec. Ent. 21, 165-172, 1928.  
 Watson, Canning Trade 51; 26, 71, '29.  
 Whittle, Amer. Fert. 61, 64, Nov. 29, '24.  
 Amer. Thresherman 27: 3, 40, 1924.
- Insecticides—Arsenate of lead**  
 Beckwith & Driggers, N.J.R. 1926-27, 138, 1928.  
 Brunson, S. C. Wkly. News Notes 18, 11, 1929.  
 Caesar, Ont. Dept. Agr. B. 325, 2, 1927.  
 Carson, Fruit Belt 21: 7, 1, 1923.  
 bDriggers, N. J. B. 480, 1929, 36 p.  
 Farley, N. J. C. 177, 7, 1925.  
 bGinsburg, J. Ec. Ent. 19, 841-853, 1926.  
 Goodwin & Martin, J. Agr. Sci. 15, 307, 1925.  
 iHamilton & Smith, J. Ec. Ent. 18, 502-509, 1925.  
 Haven, Pac. Rur. Press, 118, 216, 1929.  
 Headden, Col. P. B. 63, 1926, 4 p.

**Insecticides—Arsenate of lead *Cont'd***

Herbert, Wash. St. Hort. Assoc. Proc. 22, 7-9, 1926.

iHough, J. Agr. Res. 38, 245-256, 1929.

Howard, U. S. Ent. R. f. 1924, 2.

Jardine, Oreg. Bien. R. f. 1926-28, 106, 1928.

Leach, J. Agr. Res. 33, 7-8, 1926.

Leach & Lipp, Pa. Gen. B. 440, 13-14, 1927.

Lipp, J. Ec. Ent. 22, 600-601, 1929.

Mattice, U. S. Golf Assoc. Green Sec. B. 7, 167-168, 1927.

Overly, et al, Wash. St. Hort. Soc. Proc. 24, 93-99, 1928.

Regan, Results Insecticide Cod. Moth, 1927, 6-8.

Smith, Hilgardia 1; 17, 403-453, 1926.

Smith, J. Ec. Ent. 22, 599-600, 1929.

Snapp, USFB 1557, 39, 1928.

Van Leeuwen, J. Agr. Res. 34, 1043-1047, 1927.

Van Leeuwen & Van der Meulen, J. Ec. Ent. 18, 367, 744-749, 1925.

Van Leeuwen & Van der Meulen, N. J. Dept. Agr. C. 96, 1926, 4 p.

Van der Meulen & Van Leeuwen, J. Agr. Res. 35, 313-321, 1927.

**Insecticides—Arsenic**

Campbell, J. Wash. Acad. Sci. 18, 385, 1928.

biFink, J. Agr. Res. 33; 993-1007, 1926.

Hartzell & Wilcoxon, J. Ec. Ent. 20, 204-213, 1927.

Lomanitz, J. Agr. Res. 32, 499-500, 1926.

Moore, Indus. & Eng. Chem. 17; 5, 465-466, 1925.

Smith, J. Ec. Ent. 22, 509-510, 1929.

Vickery & Browne, Handbk. Pest Control, Sec. 4, 1-10, 1929.

**Insecticide — Arsenic, effect on citrus**  
Yothers, Cit. Ind. 8; 11, 11, 1927.

**Insecticides, Arsenic, effect on orchards**  
Headen, Colo. B. 294, 1924, 21 p.

**Insecticide—Arsenic, electrical charges**  
Moore, J. Ec. Ent. 18, 282-286, 1925.

**Insecticide—Arsenic in insect tissue**  
biFink, J. Biol. Chem. 72, 737-743, 1927.

**Insecticide—Arsenic in soil, and crops**  
biMorris & Swingle, J. Agr. Res. 34, 59-78, 1927.

**Insecticide—Arsenic production 1924**

— Indus. & Eng. Chem. 17; 5, 130, 1925.

**Insecticide — Arsenic receptor — Glutathione**

ibFink, J. Ec. Ent. 20, 794-801, 1927.

**Insecticide—Arsenic, relation to growth of apple**

Lipman, N. J. R. 47, 18, 1927.

**Insecticides—Arsenic, tolerance by insects**

iCampbell, J. Gen. Physiol. 9, 433-443, 1926.

bCampbell, J. Ec. Ent. 19, 516-522, 1926.

Kelly, Kans. St. Hort. Soc. Bien. R. 39, 18-21, 1928.

**Insecticide—Arsenic, toxicity to insects**  
Campbell, J. Gen. Physiol. 9, 727-733, 1926.

Campbell, J. Wash. Acad. Sci. 18, 385, 1928.

**Insecticide—Arsenical injury**

bGinsburg, N. J. B. 468, 1929, 16 p.

iHaenseler & Martin, Phytopathology, 15, 322-331, 1925.

Martin, Md. St. Hort. Soc. R. 29, 190-203, 1927.

— Hoosier Hort. 8; 3, 49-52, 1926.

**Insecticide — Arsenical poisoning — Live-stock**

Reeves, J. Ec. Ent. 18, 83, 1925.

**Insecticides—Arsphenamene reactions**

Beyer, La. St. Bd. Health Quar. B. 16, 157, 1925.

**Insecticides—Axfix**

Haasch, Wis. Hort. 19, 296, 1929.

**Insecticides—Barium fluosilicate**

Marcovitch & Stanley, Tenn. B. 140, 18-19, 1929.

**Insecticides—Bentonite**

Lipman, Proc. N. J. Mos. Exterm. Assoc. 12, 32, 1925.

bStreeter, J. Ec. Ent. 22, 234-235, 1929.

**Insecticides—Benzol**

Rommel, Country Gentl. 90; 17, 32, 1925.

**Insecticides—Bichloride of mercury**

Ruhmann, Brit. Col. Dept. Agr. R. 19, K 38-K 39, 1925.

**Insecticides—Blue ointment**

Herrick, N. Y. Corn. Ext. B. 115, 16, '25.

Swenk & Mussehl, Neb. C. 37, 8-11, 1928.

**Insecticides—Borax**

Matheson & Hinman, *Am. J. Hyg.* 8, 293-296, 1928.

**Insecticides—Calarnic dust**

Hinds, Spencer & Jackson, *La. R. f.* 1925, 24-25, 1926.

**Insecticides—Calcium carbonate & Bordeaux mixture**

DeOng & Root, *Phytopathology*, 15, 183-186, 1925.

**Insecticides—Calcium caseinate**

Britton, *Conn. Pomol. Soc. Proc.* 34, 51, 1925.

Cook & Dozier, *P. R. Ins. C.* 88, 18, 1925.

**Insecticides—Calcium caseinate, formula for hard water**

— *Amer. Fr. Grow. Mag.* 47; 2, 27, 1927.

**†Insecticides—Calcium Cyanide**

Beyer, *Cit. Indus.* 7; 8, 17, 1926.

Campbell, *J. Ec. Ent.* 19, 636-642, 1926.

Cole, *J. Ec. Ent.* 22, 236-237, 1929.

Corkins, *Wyo. B.* 158, 107-116, 1928.

Cory, McCulloch & Flint, *J. Ec. Ent.* 18, 415, 1925.

Curran, *Ont. Ent. Soc. R.* 58, 42-43, 1928.

Curran, *Sci. Agr.* 8, 332-335, 1928.

Dohanian, *Psyche*, 34, 146-156, 1927.

ibEddy, *S. C. B.* 256, 43, 1929.

iFiling, *Ohio B-Mo. B.* 12, 181-184, 1927.

Flint, Cory & McCulloch, *J. Ec. Ent.* 19, 411, 1926.

Graham, *J. Assoc. Off. Agr. Chem.* 10, 154, 1927.

Griffith, *Amer. J. Pharm.* 98, 135-137, 1926.

Guyton, *Penn. Dept. Agr. B.* 413, 4-5, 1925.

Kelley, *Cit. Indus.* 6; 4, 27, 1925.

Little, *J. Ec. Ent.* 20, 575-577, 1927.

Manter, *J. Ec. Ent.* 18, 348-351, 1925.

Merrill, *Cal. R. f.* 1924-25, 44, 1926.

Merrill, *Cal. R. f.* 1927-28, 53-57, 1929.

Metzger, *Indus. & Engin. Chem.* 18, 161-163, 1926.

Munding, *N. Y. St. Hort. Soc. Proc.* 70, 182-186, 1925.

iPetch, *Sci. Agr.* 8, 560-566, 1928.

Quayle, *Cal. Cit.* 11, 296, 298, 1926.

Quayle, *Cit. Indus.* 7; 7, 6, 1926.

Quayle, *Cit. Leaves* 4; 6, 5, 1926.

biQuayle, *Hilgardia* 3, 207-232, 1928.

Regnier, *Internat. Cong. Ent.* 4, Tr. 2, 87-89, 1929.

Safro, *J. Ec. Ent.* 19, 62-64, 1926.

bSmith, *J. Ec. Ent.* 19, 65-77, 1926.

Swanson & Working, *Amer. Miller*, 54, 824, 1926.

iWalker, *Florida Grow.* 32; 25, 5, 1925.

bWashburn & Mickel, *Minn. Tech. B.* 27, 1925, 14 p.

Weigel, *J. Ec. Ent.* 18, 137-141, 1925.

Weigel, *Rur. N. Y.* 84, 407, 1925.

Weigel, *USDA Dept. C.* 380, 1926, 16 p.

Yothers, *J. Ec. Ent.* 18, 368, 1925.

biYoung, *Indus. & Eng. Chem.* 21, 861-863, 1929.

Zappe & Garman, *Conn. B.* 265, 295, 1925.

**Insecticides—Calcium fluosilicate**

ilEddy & Clarke, *S. C. B.* 258, 31-32, 1929.

Lowry & Watson, *N. H. Ext. B.* 159, 2, 1929.

Russell Morrison & Ebling, *Wis. B.* 388, 72, 1926.

**Insecticides—Calcium hydroxide**

bCampbell, *J. Agr. Res.* 32, 77-82, 1926.

**Insecticides—Calcium sulphide**

Hurt & Schneiderhan, *Va. Poly. Tech. B.* 36, 1929, 15 p.

**Insecticides—Carbolineum**

Ware, *Okla. Agr. Ext. News*; 10; 11, 1, 1929.

**†Insecticides—Carbon bisulphide**

Brunson, *S. C. Wkly. News Notes*, 18, 11, 1929.

Chandler, *Animal Parasites ed.* 3, 386, 1925.

Chapman & Parker, *Sci.* 70, 18-19, 1929.

Cory, *Md. B.* 298, 192-195, 1928.

Cory & Saunders, *J. Ec. Ent.* 22, 556-561, 1929.

Fleming, *Indus. & Engin. Chem.* 17; 10, 1087, 1925.

bFleming, *J. Agr. Res.* 33; 1, 17-20, 1926.

Fleming, *Indust. & Engin. Chem.* 20, 849-851, 1928.

bFleming, *Soil Sci.* 27, 153-158, 1929.

Gibson & Twinn, *Can. Dept. Agr. B.* 112, 6, 1929.

- Insecticides—Carbon bisulphide** *Cont'd*  
 Guyton, Pa. Dept. Agr. Gen. B. 432, 20-21, 1927.  
 Headlee, N. J. R. for 1924, 306, 1925.  
 Jarvis, Internat. Cong. Ent. 4, Tr. 2, 32-33, 1929.  
 Leach & Fleming, Pa. Gen. B. 440, 15-21, 1927.  
 Leach & Johnson, U. S. D. A. B. 1332, 13-17, 1925.  
 Leach & Lipp, Pa. Gen. B. 440, 1-5, 1927.  
 Lipp, J. Ec. Ent. 20, 801-805, 1927.  
 Pirrie, Modern Bakery Production, 1928, 271-273.  
 Riley, Ind. B. 331, 11-13, 1929.  
 Simmons, J. Wash. Acad. Sci. 17, 179, 1927.  
 Strand, Minn. Tech. B. 49, 1927, 59 p.  
 Weigel, Young & Swenson, USDA C. 7, 1927, 8 p.  
 Zappe & Garman, Conn. B. 265, 295, 1925.  
 deOng, Cal. Cult. 72, 260, 1929.
- Insecticides—Carbon dioxide**  
 Cotton, & Young, Proc. Ent. Soc. Wash. 31, 97-102, 1929.
- Insecticides, Carbon disulphide, see Insecticides, Carbon bisulphide**
- Insecticides—Carbon tetrachloride**  
 Gibson & Twinn, Can. Dept. Agr. B. 112, 6-7, 1929.  
 Pirrie, Modern Bakery Production, 1928, 271-273.  
 Strand, Minn. Tech. B. 49, 1927, 59 p.
- Insecticides—Carco**  
 Buttle, West Fruit, Flower & Garden 8; 4, 9, 1926.
- Insecticides—Cedar tea for fleas**  
 Tenn, Amer. Agr. 122; 735, 1928.
- Insecticides—Chemical composition**  
 Robinson & Whitaker, Oreg. C. 84, 1927, 15 p.
- Insecticides—Chemicals**  
 Brinley, J. Agr. Res. 33, 177-182, 1926.  
 Clowes, Hygeia 5, 458-461, 1927.
- Insecticides—Chemicals—apiary**  
 Hutson, N. J. C. 211, 1929, 8 p.
- Insecticides—Chlorophyl and oil sprays**  
 Ginsburg, J. Ec. Ent. 22, 360-366, 1929.
- Insecticides—Chloropicrin**  
 G. H. Pineapple News 2, 202-203, 1928.
- bHoyt & Ellenberger, Indus. & Eng. Chemistry, 17; 5, 461-464, 1925.  
 Roark, U. S. D. A. Bur. Chem. Bib. 1, 1926, 73 p.
- Strand, J. Econ. Ent. 19, 504-510, 1926.  
 Strand, Minn. Ext. Sp. B. 102, 1926, 19 p.
- Strand, Minn. Tech. B. 49, 1927, 59 p.
- Insecticides—Commercial**  
 Fisher & Bailey, Conn. B. 300, 207-368, 1929.  
 Haseman, J. Ec. Ent. 21, 115-117, 1928.  
 Urbahns, Cal. Agr. Mo. B. 16, 525-530, 1927.
- Insecticides—Contact**  
 Atwood & Van Buren, N. Y. Dept. Farms & Markets C. 292, 55-57, 1925.  
 Hamilton, N. J. R. 50, 179-180, 1929.  
 O'Kane et al, N. H. Tech. B. 39, 1929, 42 p.  
 Parrott, Mass. Fruit Grow. Assoc. R. 35, 148-149, 1929.  
 Siegler & Popenoe, J. Ec. Ent. 18, 292-299, 1925.
- Insecticides—Copper carbonate**  
 Mackie, Cal. C. 282, 1925, 8 p.  
 Tilford, Ohio B. 341, 55-56, 1929.
- Insecticides—Copper compounds**  
 Vickery & Browne, Handbk. Pest Control, Sec. 3, 1-12, 1929.  
 Moore, Penn. Bur. Plt. Indust. Crop. Protec. Inst. C. 4; 4, 1-2, 1925.  
 N. J. Ext. B. 46, June 1, 1925, 2 p.  
 Schultz, Amer. Peony Soc. B. 22; 38, 42-43, 1929.
- Insecticides—Cornell powder**  
 Herrick, N. Y. Cornell Ext. B. 115, 16, 1925.
- Insecticides—Corrosive sublimate**  
 Brittain, Proc. Acad. Ent. Soc. 10, 39, 1925.  
 Brittain, N. S. Dept. Nat. Res. B. 11, 40-42, 1927.  
 Caesar, Ont. Dept. Agr. B. 325, 4, 1927.  
 Gui, Ohio Bi-mo. B. 12, 92-99, 1927.  
 Lowry & Watson, N. H. Ext. B. 156, 2, 1929.  
 Walton, U. S. F. B. 1569, 12-13, 1928.  
 White, Penn. Crop Protec. Inst. C. 4; 7, 2, 1925.

- Insecticides—Cotton seed lint & waste oil**  
ibHarper & Easton, J. Am. Soc. Agron. 21, 1016-7, 1929.
- Insecticides—Creosote—calcium cyanide**  
iKelly, J. Ec. Ent. 19, 121-123, 1926.
- Insecticides—Cryolite & Barium fluosilicate**  
Marcovitch & Stanley, Tenn. B. 140, 1929, 19 p.
- Insecticides—Cuprous cyanide as substitute for arsenic**  
Campbell, J. Ec. Ent. 22, 326, 1929.
- Insecticides—Cyanamid**  
——Amer. Cyanamid Co. Agr. value of cyanamid, 1927, 47 p.
- Insecticides—Cyanide dust fumigation**  
Quayle, J. Ec. Ent. 20, 200-203, 1927.
- Insecticides—Cyanogas**  
Bromley, Amer. Cyanamid Co. Res. Devmpt. Cyanogas Calcium Cyanide, Sec. 3, 89-110, 1928.  
Eddy, J. Ec. Ent. 20, 270-280, 1927.  
Eddy, Ohio J. Sci. 27, 198, 1927.  
iEvans, Cit. Indus. 7; 4, 8-9, 1926.  
Schenk, Res. Devmpt. Cyanogas Calcium Cyanide, Sec. 3, 37-69, 1926.  
White, Market Gr. J. 40; 1, 13, 1927.
- Insecticides—Cyanogen chloride**  
Rice, Pub. Health R. 40, 1808-1811, '25.
- Insecticides—Delphin**  
Davidson, J. Ec. Ent. 22, 226-234, 1929.
- Insecticides—Derris**  
Caesar, Ont. Ent. Soc. B. 325, 3, 1927.  
Carlos, Fert. Feeding Stuff & Farm Supplies J. 11, 663-664, 1926.  
Fryer, Fla. Grow. 33; 14, 20, 1926.  
Kelsall, N. S. Fr. Grow. Assoc. R. 62, 62, 1925.  
Kelsall, Spittall, Gorham & Walker, Ont. Ent. Soc. R. 56, 24-40, 1926.  
Merrill, Cal. R. 1924-25, 53, 1926.  
iRoark, J. Ec. Ent. 22, 378-381, 1929.  
Twinn, Ont. Ent. Soc. R. 57, 15-16, '27.
- Insecticides—Derrisol**  
Lenfest, Cit. Indus. 7; 4, 20, 1926.  
Winston, Cit. Indus. 7; 3, 22-32, 1926.
- Insecticides—Dipridyl oil**  
——Amer. Fruit Grow. Mag. 47, 4, 14, '27.
- Insecticides—Distribution**  
Morgan & Mewborne, J. Ec. Ent. 18, 299-302, 1925.
- Insecticides—Dry lime-sulphur**  
Dutton, Can. Hort. 52, 43, 1929.
- Insecticides—Dry Zinc chloride**  
Barr, Agr. Eng. 8, 176, 1927.
- Insecticides—Economic use**  
Roark, Chem. Markets 22; 3, 303-304, 1928.
- Insecticides—Effectiveness**  
Abbott, J. Ec. Ent. 18, 265-267, 1925.
- Insecticides—Ethylene dichloride**  
Gibson & Twinn, Can. Dept. Agr. B. 112, 6, 1929.  
Hoyt, Indust. & Engin. Chem. 20, 460-461 & 931-932, 1928.  
Pirrie, Modern Bakery Production, 1928, 271-273.  
Roark, Nat. Safety News, 17; 1, 23-24, '28.
- Insecticides—Evaluation**  
Peet, Indus. & Engin. Chem. 20; 11, 1164-1165, 1928.
- Insecticides—Experiments—Jamaica**  
Gowdey, Jamaica Sci. & Agr. Dept. Ann. Rept. f. 1925, 11, 1926.
- Insecticides—Export decrease 25%, 1928**  
——Chemicals 31; 28, Mar. 11, 1929.
- Insecticides—Halogenated fatty acids**  
Roark & Cotton, Indus. & Eng. Chem. 20; 5, 512-514, 1928.
- Insecticides—Fluorine compounds**  
Hart, Indus. & Engin. Chem. Anal. Ed. 1, 133-135, 1929.  
Marcovitch, J. Ec. Ent. 19, 795-796, '26.  
ibMarcovitch, Tenn. B. 139, 1928, 48 p.
- Insecticides—Fluorides and Fluosilicates**  
Marcovitch, J. Ec. Ent. 19, 705, 1926.  
Marcovitch, Science 64, 159, 1926.  
bRoark, Science 63, 431-432, 1926.
- Insecticides—Fluosilicates**  
bFleming, J. Ec. Ent. 20, 685-691, 1927.  
Marcovitch, C. Gentlem. 91; 4, 74, '26.  
Marcovitch, Indust. & Engin. Chem. 18, 572-573, 1926.  
iMarcovitch, Tenn. B. 134, 1926, 13 p; R. 38, 15-16, 1926; R. 40, 31-32, '28.
- Insecticides—Fluosilicates & arsenicals**  
Carter, J. Ec. Ent. 22, 814-818, 1929.  
Snapp, J. Ec. Ent. 21, 175-177, 1928.
- Insecticides—Formaldehyde**  
bBeach, Penn. St. B. 202, 1926, 28 p.  
Rosenfeld, Sugar B. 7; 19, 7, 1929.  
Steffen, Amer. Bee J. 66, 552, Nov. '26.

- Insecticides—Formulas, dry mix sulfur lime—dilution**  
 Farley, N. J. C. 177, 6-7, 1925.  
 Farley, Penn. St. Hort. Assoc. Proc. 65, 135-138, 1924.
- Insecticides—Formulae**  
 McLeod, Penn. St. Ext. C. 122, 5-8, 1929.  
 Pettit, Mich. Sp. B. 183, 4, 1929.  
 Wilkinson, Conn. Ext. B. 114, 9-11, 1927.
- Insecticides—Hot water**  
 Doucette, J. Ec. Ent. 19, 248-251, 1926.  
 iDoucette, Cal. Dept. Agr. Mo. B. 16, 236, 1927.  
 Locklin & Newton, West. Wash. B. 13, W. n. s. 1929, 32 p.  
 McDaniel, Mich. Quar. B. 9; 2, 55, 1926.  
 Weigel, J. Ec. Ent. 20, 113-126, 1927.  
 Weigel, J. Wash. Acad. Sci. 17, 407, 1927.  
 iWeigel, Flor. Rev. 60; 1549, 25-28, 1928.  
 iWeigel, Flor. Rev. 60, 1555, 25-26, 1928.  
 Weigel, J. Ec. Ent. 21, 352-353, 1928.  
 iWeigel & Swenson, Flor. Rev. 58; 1503, 48-49, 1926.
- Insecticides—Hydrated lime**  
 bHuckett, N. Y. (Geneva) Tech. B. 148, 65-69, 1929.
- Insecticides—Hydrochloric acid**  
 Thompson, Blue Anchor 5; 11, 16, 1928.
- Insecticides—Hydrocyanic acid gas**  
 iAllison, Iowa St. Col. J. Sci. 2, 243-252, 1928.  
 Back & Cotton, Furniture Manfg. 95; 5, 59, 1928.  
 Brittain, N. S. Dept. Nat. Resource B. 12, 146-148, 1927.  
 Curtiss, Iowa R. f. 1926, 41.  
 Evans, Cit. Indus. 7; 4, 8, 1926.  
 Guyton, Pa. Dept. Agr. Gen. B. 432, 20, 1927.  
 Knight, Hilgardia (Cal.) 1, 35-36, 1925.  
 Liston, Soc. Chem. Ind. J. (Chem. & Indus.) 44, 367-371, Apr. 10, 1925.  
 Peet, Food Indus. 1, 502-503, 1929.  
 Yothers, Cit. Indus. 7; 3, 14, 1926.  
 ibYoung, Indus. & Eng. Chem. 21, 861-863, 1929.
- Insecticides—Hydrogen cyanide—liquid**  
 Perry & Porter, Am. Chem. Soc. J. 48, 299-302, 1926.  
 iScott, Millers Rev. 93; 9, 18-19, 1929.
- Insecticides—Hydrogen ion**  
 ibFink, Ann. Ent. Soc. Amer. 20, 503-512, 1927.
- Insecticides—Inspection—La.**  
 Kerr, La. Com. Agr. & Immig. Bien. R. 23, 30-31, 1928.
- Insecticides—Investigations**  
 Barre, S. C. Rept. 41, 52-54, 1928.  
 Ginsburg, N. J. R. 49, 158-163, 1928.  
 Lipman, N. J. R. 49, 40-41, 1928.
- Insecticides—Land plaster (Gypsum)**  
 Houser & Baldus, Ohio B. 388, 343, '25.
- Insecticides—Larvicides**  
 Barber & Komp, U. S. Pub. Health R. 42, 1997-2004, 1927.  
 Ginsburg, N. J. R. 50, 130-131, 1929.  
 Johnson, So. Med. J. 22, 372-374, 1929.  
 Mote, Ohio B. 428, 31-35, 1928.
- Insecticides—Latex**  
 Ditmar, Rev. gen. caoutchouc 1925, No. 15, 9 10.
- Insecticides—Lead oleate**  
 Headlee, N. J. R. 46, 413, 1926.
- Insecticides—Lead salts**  
 Brinley, J. Ec. Ent. 22, 221-225, 1929.
- Insecticides—Lime & pepper**  
 W. H. H. Rur. N. Y. 88, 863, 1929.
- Insecticides—Liquor cresolis compositus**  
 U. S. D. A. Insect. & Fung. Bd. Service & Reg. Ann. 57, 1, 1926.
- Insecticides—Liquid-tests**  
 Peet & Grady, Soap, 4; 1, 95-99, 113-115, 1928; 4; 3, 97, 99, 115, 1928.
- Insecticides—Magnesium arsenate**  
 Hamilton, N. J. C. 216, 13, 1929.  
 iMiller, J. Ec. Ent. 22, 340-343, 1929.
- Insecticides—Mercurial ointment**  
 Herrick, N. Y. Cornell Ext. B. 115, 16-17, 1925.
- Insecticides—Mercuric chloride**  
 bClayton, N. Y. Gen. B. 537, 1926.  
 — Rur. N. Y. 85, 976, 1926.
- Insecticides—Mercury compounds**  
 ibHorsfall, J. Ec. Ent. 21, 147-150, 1928.
- Insecticides—Mercury salts for soil**  
 iGlasgow, J. Ec. Ent. 22, 335-340, 1929.
- Insecticides—Mowrah meal, earthworms**  
 Walton, U. S. F. B. 1569, 13, 1928.
- Insecticides—Monohydrated copper sulphate**  
 Demaree & Cole, U. S. D. A. Dept. C. 412, 1927.

- Insecticides—Moth proofing solutions, see**  
Moth proofing
- Insecticides—Naphthalene**  
Bottimer, J. Ec. Ent. 22, 570-575, 1929.  
Cole, Science 67, 494, 1928.  
Gibson & Twinn, Can. Dept. Agr. B. 112, 7, 1929.  
iHartzell, J. Ec. Ent. 19, 780-786, 1926.  
iHartzell, J. Ec. Ent. 22, 354-360, 1929.
- Insecticides—New Jersey dry mix**  
Anderson, Amer. Fr. Gr. Mag. 46; 12, 1, 1926.
- Insecticides—Nicodust**  
Hawley, Utah B. 192, 44, 1925.
- Insecticides—Nicofume**  
Ball, S. Flor. & Nurseryman 28, 12, 20, 1929.
- Insecticides—Nicotine**  
Haley, Olson & Follweiler, J. Ec. Ent. 18, 807-817, 1925.  
Brittain, N. S. Frt. Gr. Assoc. R. 61, 70-72, 1925.  
Brittain, N. S. Dept. Nat. Resource B. 12, 138-139, 1927.  
Coad, et al USDA Leaf. 53, 2-4, 1929.  
Compton Canning Trade 48; 50, 12, '25.  
Compton, Ill. C. 297, 8-9, 1925.  
Crowley, Wash. B. 229, 62, 1929.  
de Ong, Indust. & Engin. Chem. 16, 1275-1277, 1924.  
Gibson & Twinn, Can. Dept. Agr. B. 112, 8-9, 1929.  
Glendenning, Ont. Ent. Soc. R. 58, 25-27, 1928.  
Haley, Penn. St. Farm. 18, 218, 1925.  
Headlee, N. J. Hort. Soc. Proc. 50, 1924, 120-123, 1925.  
Headlee & Ginsburg, N. J. B. 469, 8, 1929.  
iHixon & Drake, Iowa St. Col. J. Sci. 1; 3, 373-377, 1927.  
Hoerner, S. Dak. St. Hort. Soc. R. 22, 261, 1925.  
Huckett, N. Y. Geneva C. 80, 6-7, 1925.  
bHuckett, N. Y. Geneva Tech. B. 148, 10-65, 1929.  
Knopf, Amer. Farming 19; 9, 4, 1924.  
Lenfest, Cit. Indus. 7; 4, 20, 1926.  
Long, S. C. Ext. C. 95, 9-10, 1928.  
McDonnell & Graham, Ind. & Eng. Chem. 21, 70-73, 1929.
- ibMcDonnell & Young, U. S. D. A. B. 1312, 1925, 15 p.  
ibMcGovran, J. N. Y. Ent. Soc. 37, 513-531, 1929.  
Marshall et al, Cal. Dept. Agr. Sp. Pub. 66, 25, 1926.  
Moore, Idaho Farm. 44, 520, 1929.  
Rudolfs, J. Ec. Ent. 20, 430-431, 1927.  
Stearns, N. J. R. 47, 195, 1927.  
Streeter, J. Ec. Ent. 18, 591-593, 1925.  
Thatcher, N. Y. Hort. Soc. Proc. 71, 30-37, 1926.  
Thatcher, Streeter & Collinson, J. Am. Soc. Agron. 16, 459-466, 1924.  
Wilson, Amer. J. Pharm. 100, 403-408, 1928.  
Yardwood, Garden Mag. 41, 146, 1925.  
Young & Nelson, Indus. & Engin. Chem. 21, 321, 1929.
- Insecticides—Nicotine**  
Dodds, Cal. Cit. 12, 171, 1927.  
Snapp, USFB 1557, 40, 1928.  
Walker, Cit. Indus. 6; 5, 11, 1925.  
Watson, Cit. Indus. 6; 11, 26, 1925.  
Yothers & McBride, Fla. Hort. Assoc. Proc. 38, 148, 1925.  
Yothers & McBride, Fla. St. Hort. Soc. Proc. 39, 169-170, 1926.
- Insecticides—Nicotine sulphate**  
— Iowa Agriculturist 24, 218, 1924.
- Insecticides—Nitrate of soda**  
Cates, Grace Log 5; 1, 6, 1922.
- Insecticides—Orthodichlorobenzene**  
Lipp, J. Ec. Ent. 22, 268, 1929.
- Insecticides—Ortho-toluidine**  
bFleming, J. Ec. Ent. 19, 511-515, 1926.
- Insecticides—Paracide**  
Gunder, Ent. News 39, 318, 1928.
- Insecticides—Paradichlorine**  
Snapp, Ga. Hort. Soc. Proc. 5, 55, 1926.
- †Insecticides—Paradichlorobenzene**  
Anderson, Ann. R. Mich. St. Hort. Soc. 56, 221-223, 1926.  
Back & Cotton, Furniture Manfg. 95; 5, 59, 1928.  
Bottimer, J. Ec. Ent. 22, 570-573, 1929.  
Brunson, Clemson Col. S. C. Weekly News Notes 17; 11, 1928; 18; 12, '29.  
Caesar, Ont. Ent. Soc. R. 57, 17-18, '27.  
Ciferri, Science 70, 240, 1929.  
bDikmans, J. Agr. Res. 35, 645-649, 1927.  
iEssig, Cal. B. 411, 1926, 20 p.



‡Insecticides—Paradichlorobenzene *Cont'd*

- Flint & Chandler, Ill. St. Hort. Soc. Tr. 55, 65-75, 1922.
- Gibson & Twinn, Can. Dept. Agr. B. 112, 7, 1929.
- Hamilton, N.J.R. 47, 196-199, 1927.
- iHinds, La. Ext. C. 93, 1926, 3 p.
- Jarvis, Internat. Cong. Ent. 4, Tr. 2, 30-32, 1929.
- Lipman, N. J. R. 47, 17, 1927.
- McHatton, Fla. Dept. Agr. Quar. B. 35: 4, 30-31, 1925.
- McHatton & Firor, Ga. Ext. B. 357, 13-14, 1928.
- Merrill, Cal. R. 1924-25, 51, 1926.
- Moorting, Okla. Ext. News 7; 1, 4, '25.
- Rosen, Phytopathology 16, 635, 1926.
- Siegler & Brown, J. Ec. Ent. 20, 701-702, 1927; 22, 217-221, 1929.
- Snapp, Ga. St. Hort. Soc. Proc. 50, 55-56, 1926.
- Snapp, USFB 1557, 41, 1928.
- iSnapp, USDA Tech. B. 58, 1928, 39 p.
- Snapp, Tenn. St. Hort. Soc. Proc. 24, 70-72, 1929.
- Snapp & Swingle, J. Ec. Ent. 22, 782-785, 1929.
- Stearns, Ohio St. Hort. Soc. Proc. 60, 32, 1928.
- Stearns & Neiswander, Tenn. St. Hort. Soc. Proc. 24, 90-91, 1929.
- Thompson, Ore. St. Hort. Soc. Bien. Rept. 19, 134, 135, 1927.
- Watson, South. Flor. 28; 6, 10, 1929.
- Insecticides—Paraffin derivatives**
- Cook, J. Agr. Res. 32, 347-358, 1926.
- Insecticides—Paranaph**
- Cousins, J. Jam. Agr. Soc. 31, 465-467, '27.
- J. Jam. Agr. Soc. 29, 186-187, '25.
- Insecticides—Paris green**
- Caesar, Ont. Dept. Agr. B. 325, 3, 1927.
- Chipman, Chem. Age 32, 487-488, D. 1924.
- Chipman, Chem. & Indus. 44, 421, 1925.
- Dolloff, U. S. Pub. Health R. 44, 2588-2594, 1929.
- Gardner, Mich. R. f. 1926-28, 15, 1928.
- Gill, Kiker & Sims, So. Med. J. 22, 399-404, 1929.
- Griffitts, U. S. Pub. H. R. 42, 2701-2705, 1927.

Johnson, So. Med. J. 22, 372-374, 1929.

iKing & Bradley, U. S. D. A. Dept. C. 367, 1926, 15 p.

iLePrince, U. S. Pub. Health R. 44, 1001-1018, 1929.

Lyle, Miss. St. Plt. Bd. Quar. B. 8, 4, 23-24, 1929.

Sanders, Penn. Crop Protec. Inst. C. 4; 1, 4, 1925.

Vincent, Rockefeller Found. Rev. 1925, 19-21, 1926.

ibWilliams & Cook, U. S. Pub. Health R. 42, 259-280, 459-480, 1927.

**Insecticides—Patents—1927**

Roark, Rev. U. S. Patents relating to insect. Oct. 1927.

Roark, Internat. Cong. Ent. 4, Tr. 2, 728-736, 1929.

**Insecticides—Potassium cyanide**

Floyd, Fla. Grower, 37; 9, 33, 1929.

Watson, Fla. Dept. Agr. Quar. B. 39: 3, 206-207, 1929.

**Insecticides—Potassium xanthate**

H. T. M. & G. H. G., Pineapple News 2, 164-165, 1928.

Van Zwaluwenburg, Assoc. Hawaiian Sugar Tech. R. 5, 23, 1926.

**Insecticides—Pyrethrum**

Beckwith & Fudge, N.J.R. 50, 195-197, '29.

Bishopp, Farm & Ranch 48: 37, 18, '29.

Caesar, Ont. Dept. Agr. B. 325, 4, 1927.

iCory, Md. B. 308, 417-428, 1929.

Cory & Eaton, Md. B. 308, 417-428, '29.

Eddy & Clarke, S. C. B. 258, 32-33, '29.

Gibson & Twinn, Can. Dept. Agr. B. 112, 8, 1929.

Ginsburg, N. J. R. 50, 176-178, 1929.

Gnadinger & Corl, Am. Chem. Soc. J. 51, 3054-3064, O. 1929.

Gnadinger, Pac. Rur. Press, 118; 59, 37, 1929.

Haywood, U. S. Insect. & Fungicide Bd. R. f. 1926, 5.

Headlee, N. J. St. Hort. Soc. Proc. 1928, 54-57.

Roark, Oil, Paint & Drug R. 114, 50, Dec. 17, 1928.

Twinn & Herman, Sci. Agr. 8, 441-445, 1928.

White, Soap, 2; 8, 59-61, 1927.

- Insecticides—Pyridin**  
 — Indus. & Eng. Chemistry, 17; 5, 369, 1925.
- Insecticides—Sabadilla**  
 A. S. A. Rur. N. Y. 85, 578, 1926.
- Insecticides—Scalecide vs. lime sulphur**  
 The Spray 1: 3, 4-6, 1924.
- Insecticides—Silicofluoride**  
 Hinds, La. B. 201, 21-56, 1927.
- Insecticides—Smokes—toxic**  
 Walton, U.S. Naval Med. B. 21, 275, '24.
- Insecticides—Snuff**  
 Miller, Fla. St. Hort. Soc. Proc. 39, 165-168, 1926.
- Insecticides — Soap-nicotine — deterioration**  
 McDonnell & Graham, Indus. & Engin. Chem. 21, 70-73, 1929.
- Insecticides—Sodium arsenate**  
 — Market Growers J., 43, 521, 1928.  
 — Amer. Fert. 64: 8; 40, 1926.
- Insecticides—Sodium arsenite**  
 Compton & Flint, J. Ec. Ent. 20, 295-298, 1927.  
 Cowan & McCampbell, Colo. C. 53, 24-25, 1929.  
 bShotwell & Cowan, J. Ec. Ent. 21, 222-230, 1928.
- Insecticides—Sodium cyanide**  
 Trimble, Pa. Dept. Agr. B. 8:2, 13, 1925.  
 Zappe & Garman, Conn. B. 265, 297, 1925.
- Insecticides—Sodium fluoride**  
 Alexander, Amer. Sheep Breeder, 49; 9, 32, 1929.  
 Billings, Wallace's Farm. 54: 22, 826, 1929.  
 Embleton, Ariz. Cattle. & Farm. 12: 39, 2, 1929.  
 Gibson & Twinn, Can. Dept. Agr. B. 112, 7-8, 1929.  
 Guyton, J. Ec. Ent. 19, 602-603, 1926.  
 Herrick, N. Y. Cornell Ext. B. 115, 15-16, 1925.  
 Kerr & Smith, U. S. D. A. Off. Rec. 4: 48, 5, 1925.  
 Kirkpatrick, Farm & Ranch, 45; 21, 22, 1926.  
 Langford, J. Ec. Ent. 19, 670, 1926.
- Insecticides—Sodium fluosilicate**  
 Caesar, Ont. Dept. Agr. B. 325, 3, 1927.  
 Gillette, J. Ec. Ent. 19, 670, 1926.
- Holloway, Haley & Ingram, Sugar B. 5, 5, 4, 1926.  
 Ingram, Rice Journal 29; 11, 15, 1925.  
 Ingram, J. Ec. Ent. 19, 853-858, 1926.  
 Langford, J. Ec. Ent. 19, 670, 1926.  
 Marcovitch, Indus. & Engin. Chem. 16: 12, 1249, 1924.  
 Marcovitch, J. Ec. Ent. 18, 122, 1925.  
 Marcovitch, Penn. Crop Protec. Inst. C. 4; 1, 2, 1925.  
 Marcovitch, Sci. 61, 22, 1925.  
 Marcovitch, Farm Jour. 50; 7, 14-15, '26.  
 iMarcovitch, J. Pharmacol. 34: 2, 179-186, 1928.  
 Osborn, J. Ec. Ent. 19, 643-644, 1926.  
 R. L. H., Successful Farm. 23; 5, 34-35, 1925.  
 Walker, J. Ec. Ent. 21, 156-164, 1928.
- Insecticides—Sodium hypochlorite**  
 Slocum, Wash. Ext. B. 128, 9, 1925.
- Insecticides—Sodium silicofluoride**  
 Hinds, J. Ec. Ent. 22, 768-773, 1929.  
 Marcovitch, Ind. Eng. Chem. 16, 1249, 1924.  
 Minaeff & Wright, Ind. & Engin. Chem. 21, 1187-95, 1929.
- Insecticides—Sodium oleate**  
 Van Leeuwen, N. J. Dept. Agr. Bur. Stat. & Inspec. C. 92, 1926, 2 p.
- Insecticides—Standardization**  
 White, Soap, 3; 6, 93-95, 1928.  
 White, Oil, Paint & Drug R. 116; 27, 48 & 54, 1929.
- Insecticides—Statistics—1928**  
 Roark, J. Ec. Ent. 22, 699-701, 1929.
- Insecticides—Stomach poisons**  
 bCampbell & Filmer, Internat. Cong. Ent. 4, Tr. 2, 523-533, 1929.  
 Fernald, Applied Ent. ed. 2, 43-48, 1926.
- Insecticides—"Stoxal"—Larvicide**  
 Barber & Kemp, U. S. Pub. Health R. 42, 1997-2004, 1927.
- Insecticides—Sulphur**  
 Ballou & Lewis, Hoosier Hort. 10, 107-110, 1928.  
 ibBulger, Ohio J. Sci. 28, 1-42, 1928.  
 C. H. K., Amer. Fr. Grow. Mag. 47; 1, 17, 1927.  
 Chandler, Animal parasites ed. 3, 386, 1925.  
 DeOng, & Huntoon, J. Ec. Ent. 22, 866-873, 1929.

**Insecticides—Sulphur *Cont'd***

- Ewing, J. Ec. Ent. 18, 827-829, 1925.  
 Farley, N. J. C. 177, 3, 1925.  
 Gibson & Twinn, Can. Dept. Agr. B. 112, 7, 1929.  
 ibGreaney, Sci. Agr. 8, 316-331, 1928.  
 Guyton, Pa. Dept. Agr. Gen. B. 432, 18-19, 1927.  
 iHartzell & Lathrop, J. Ec. Ent. 18, 267-279, 1925.  
 Livingstone, Hoard's Dairyman 70, 177, 1925.  
 iParker, Gard. Chronicle 80; 2063, 33-34, 1926.  
 Sanders, Md. Farm. 13; 19, 11, 1929.  
 Swingle, J. Agr. Res. 36, 184, 1928.  
 bThatcher & Streeter, N. Y. Gen. Tech. B. 116, 1925, 18 p.  
 Vickery & Browne, Handbk. Pest Control, Sec. 2, 1-30, 1929.  
 Watson, Citrus Industry 3; 3, 6, March, 1922.  
 Wieder, Valley Farmer & Citrus Grower 3; 6, 6, 1925.  
 Yard, Am. Fr. Gr. 46: 12, 19, 1926.  
 Yothers, Citrus Indus. 6; 7, 16, 1925.  
 Young, Peninsula Hort. Soc. Tr. f. 1927, 31-34.  
 Young, Proc. Ohio St. Hort. Soc. 61, 34-39, 1929.
- Insecticides—Talc**  
 Driggers, J. Ec. Ent. 22, 327-334, 1929.
- Insecticides—Tartar emetic**  
 — Farm & Home 11; 29, 6, 1929.
- Insecticides—Tetraflume**  
 — Co-operative Manager & Farmer 14: 11, 29, 1925.
- Insecticides—Thallium**  
 Popenoe, Science 64, 525, 1926.  
 Popenoe, Sci. Amer. 136: 2, 130, 1927.
- Insecticides—Tests**  
 Garman, Conn. B. 294, 277-278, 1928.
- Insecticides—Tobacco**  
 Groff, Amer. Flor. 63, 1027, 1924.  
 Hockett, N. Y. Gen. C. 80, 7, 1925.  
 Hockett, N. Y. Gen. Tech. B. 121, 1926, 29 p.  
 Lowry & Watson, N. H. Ext. B. 156, 2, 1929.
- Insecticides—Toxicity**  
 iBarre, S. C. Ann. R. 40, 40-42, 1927.

iFilmer, Internat. Cong. Ent. 4, Tr. 2, 523-533, 1929.

bRichardson & Smith, J. Agr. Res. 33, 597-609, 1926.

Spuler, Wash. B. 229, 28-29, 1928.

Webster, Wash. B. 222, 23, 1927.

**Insecticides—Trimethylamine**

iWilcox, Farm Journal 49; 2, 78, 1925.

**Insecticides—Turpentine**

Barnes, Am. J. Hygiene 5, 309-314, 1925.

**Insecticides—Volck**

Bruce, Kans. Ent. Soc. J. 1, 74-79, 1928.

— Market Growers Journal 39, 861, 1926.

**Insecticides—Water**

Fleming, J. Agr. Res. 33, 823, 1926.

**Insecticides—Weed killers**

bVigor, Sci. Agr. 9: 9, 587-593, 1929.

**Insecticides—Wetting power**

ibGreen, J. Physical Chem. 33, 921-935, June, 1929.

**Insecticides—Wormseed oil**

Leach & Johnson, USDAB 1332, 3-13, '25.

**Insecticides and fungicides**

Bartlett, et al, Me. Off. Inspec. 118, 52-72, 1925.

Cutright, Ohio Bi-Month B. 14: 2, 42-44, 1929.

Fernald, Applied Ent. ed. 2, 53-58, 1926.

Graham, Assoc. Offic. Agr. Chem. J. 8, 333-343, 1925; J. 9, 127-137, 1926; J. 10; 150-166, 1927.

Herman, Quebec Soc. Protec. Plants R. 21, 10-11, 1929.

Jardine, Oreg. Bien. R. f. 1926-28, 77-78, 1928.

Morrison, N. Y. Gen. R. 47: 39-40, 1928.

Motz, Schneiderhan & Schoene, Va. Ext. B. 94, 18, 1925.

Motz, Schneiderhan & Hough, Va. Poly. B. 111, 25-27, 1929.

Smith, Chemistry & Industry 44, 417-420, 1925.

Smith, Market Growers Journal 37, 926, 1925.

**Insecticides and fungicides—Analyses**

Cathcart & Willis, N. J. B. 424, 1925, 16 p.; B. 441, 1926, 16 p.

- Insecticides and fungicides—Census of manufacture**  
 — Agr. Insect. & Fung. Assoc. Mfg. B. 4, 13-14, 1926.
- Insecticides and fungicides—Chemical composition**  
 Robinson & Yates, Oreg. C. 64, 1925, 14 p.  
 Thatcher, N. Y. Gen. R. 46, 38-40, 1927.
- Insecticides and fungicides—Distribution by mail**  
 — Agr. Insect. & Fung. Mfg. Assoc. B. 5, 16-17, 1926.
- Insecticides and fungicides—Examination**  
 Bailey, Conn. B. 272, 143-150, 1925.
- Insecticides and fungicides—Manufacture**  
 Chipman, Chemistry & Industry 44, 421, 1925.
- Insecticides and fungicides—Recent progress; McDonnell, Indust. & Engin. Chem. 16: 1007-1012, 1924.**
- Insecticides and fungicides—Report on**  
 Graham, J. Assoc. Official Agr. Chem. 12: 139-140, 1929.
- Insectivorous plants**  
 Everett, Gard. Chron. Amer. 32, 14, 18, 1928.  
 Fatt, Amer. Nurseryman 44, 43, 1926.  
 iWilson, St. Nicholas 54, 311, Feb. 1927.
- Insects**  
 Aaron, Nat. Mag. 14, 281-284, 1929.  
 Kellogg, World's Work, 49, 477-82, Mar. 1925.  
 iWheeler, Foibles of insects and men, 1928, 730 p.
- Insects—Altitudes reached by**  
 Felt, N. Y. St. Mus. B. 274, 67-69, 1928.
- Insects—Amount of food eaten by**  
 bWolcott, Porto Rico Dept. Agr. J. 9: 47-58, 1925.
- Insects—Anatomy—Head**  
 iAbney, Ann. Ent. Soc. Amer. 19, 286-289, 1926.  
 ibCrampton, J. Ent. Zool. 20, 1-18, 1928.  
 Krafka, Ann. Ent. Soc. Amer. 19, 281-285, 1926.
- Insects—Accidentally imported**  
 — Nat. Nurseryman, 36; 20, 16, 1929.
- Insects—Ancestry**  
 biWalton, Amer. Nat. 61, 226-250, 1927.
- Insects and abnormality in pines**  
 Hopping, Journal Forestry 23, 932-935, 1925.
- Insects and Army chemical warfare service**  
 Bogart, Oil Paint & Drug. R. 112, 38C Dec. 19, 1927.
- Insects and chemistry**  
 Rudolfs, Jour. Chem. Ed. 6: 6, 1100-1112, 1929.
- Insects and climate**  
 Cooley, Mont. R. 31, 32, 1925.  
 Headlee, N. J. R. f. 1924, 281-284, 1925.  
 Headlee, N. J. R. f. 1926-27, 121-123, 1928.  
 Lipman, N. J. R. 47, 14-15, 1926, 1927.
- Insects and disease**  
 Bequaert, Nat. Hist. N.Y. 26, 133, 1926.  
 Chandler, Animal Parasites ed. 3, 1925, 573 p.  
 Cleveland, Science n. s. 63, 169, 1926.  
 Cooley, Amer. J. Pub. Health 18, 993-996, 1928.  
 ibDavis, Amer. J. Hyg. 8: 3, 457-466, 1929.  
 Felt, N. Y. St. Mus. B. 274, 5-6, 1928.  
 iFox, Insects and disease of man, 1925, 349 p.  
 biGlaser, Amer. J. Trop. Med. 6, 205-219, 1926.  
 Herms, J. Ec. Ent. 22, 50-51, 1929.  
 Jardine, Oreg. Bien. R. 1924-1926, 103, 1926.  
 iKotlan & Chandler, Am. Vet. Med. Assoc. J. 70: 520-524, Ja. 1927.  
 Leathers, South Agr. 59: 13, 11, 1929.  
 Magill, Ky. St. Hort. Soc. Tr. f. 1925, 155-159, 1926.  
 bMcKinley, Porto Rico Rev. Pub. Health 4: 11, 538-580, 1929.  
 Noguchi, Science n. s. 63, 503-504, 1926.  
 Noguchi & Tilden, J. Expt. Med. 44, 307-325, 1926.  
 ibRawson, J. Am. Vet. Med. Assoc. 74: 7, 1027-1039, 1929.  
 Reasoner, Amer. J. Pharm. 98, 167-177, 1926.  
 Reasoner, J. Amer. Med. Assoc. 86, 714, 1926.  
 Reasoner, Soap, 1; 6, 47-49, 1926. 1; 7, 43, 45, 47, 65, 1926.  
 Reasoner, Vet. Med. 21, 175-181, 1926.  
 iRiley, Nation's Health 8, 192-193, 1926.

**Insects and disease** *Cont'd*

- iRosenau, Preventive Med. ed. 5, 1927, 260-380.  
 Sprague, Soap, 4; 7, 103, 115, 1929.  
 Stiles & Hassall, Hyg. Lab. B. 150, 291-408, 1928.
- Insects and disease—Anaplasmosis in sheep**  
 bStiles, Am. Vet. Med. Assoc. J. 74, 704-723, 1929.
- Insects and disease—Carrion's disease**  
 Noguchi, Shannon, Tilden & Tyler, J. Exp. Med. 49, 993-1008, 1929.
- Insects and disease—Creeping eruption**  
 Dove, So. Med. J. 18, 405, 1925.  
 biKirby-Smith, So. Med. J. 18, 402-411, 1925.  
 Kirby-Smith, Dove & White, Arch. Dermatol. 13, 137-173, 1926.
- Insects and disease—Leishmaniasis**  
 bDrBohlay, Am. J. Hygiene 5, 580-598, 599-610, 611-621, 1925.  
 Noguchi & Tilden, J. Expt. Med. 44, 307-325, 1926.
- Insects and disease—Leprosy**  
 Vedder, Philippine J. Sci. 37, 215-245, 1928.  
 — Science, Supp. 69; 1779, 1, lii, 1929.
- Insects and disease—Plague**  
 bTeh, Chun & Pollitzer, Amer. J. Hygiene 5, 196-200, 1925.  
 Weiss, J. N. Y. Ent. Soc. 35, 209-211, '27.
- Insects and disease—Pinkeye—Cal.**  
 Herms, J. Ec. Ent. 19, 692-695, 1926.
- Insects and disease—Tick paralysis**  
 Rawson, J. Am. Vet. Med. Assoc. 74: 7, 1035, 1929.
- Insects and disease—Tsutsugamushi**  
 McKinley, Philippine J. Sci. 39, 286-291, 1929.
- Insects and entomologists**  
 Britton, Ont. Ent. Soc. R. 56, 55-63, 1926.
- Insects and food supply**  
 i— Cornell Rur. Sch. L. 18; 3, 16-19, 1925.
- Insects and fungi**  
 Dunn, Gard. Chron. Amer. 29, 65, Mar. 1925.
- Insects and Health**  
 ibFelt, N. Y. St. Mus. B. 274, 5-57, 1928.
- Insects and homeopathic magic**  
 Weiss, J. N. Y. Ent. Soc. 34, 342, 1926.
- Insects and human destiny**  
 Popenoe, News f. Nurserym. 6; 4, 9, 1929.
- Insects and human welfare**  
 Felt, Sci. Mo. 21, 649-653, 1925.
- Insects & nemas—Interrelationship**  
 Christie, J. Wash. Acad. Sci. 18, 45, 1928.
- Insects & plant disease**  
 Barre, S. C. R. 38, 44-45, 1925.  
 Bentley, Tenn. Div. Plant Disease Cont. B. 52, 1928, 7 p.  
 Chambers, Wis. Dept. Agr. B. 98, 81-126, 1929.  
 Chenoweth, Cal. Assoc. Nurserym. Tr. 18, 13, 1928.  
 iClayton, Fla. Ext. B. 41, 14, 1925.  
 ibDoolittle & Jones, Phytopathology, 15, 763-771, 1925.  
 Goode, Success. Farm. 23; 4, 36, 44, '25.  
 Herms, J. Ec. Ent. 22, 52-53, 1929.  
 ibHoggan, Phytopathology 19, 109-123, 1929.  
 McCown, Hoosier Hort. 8, 73-74, 1926.  
 Owens, Principles of Plant Pathology, 1928, 131-141.  
 Russell, Morrison & Ebling, Wis. B. 388, 73, 1926.  
 Smith, W. Va. Dept. Agr. Bien. R. 7, 65, 1926.  
 Walker, U. S. F. B. 1439, 2-3, 1927.  
 bWolcott, Ecology 9, 461-466, 1928.
- Insects and plant diseases—Aster yellows**  
 bDobrosky, Phytopathology 19, 1009-1015, 1929.
- Insects and plant diseases—Cat facing**  
 iPorter, Chandler & Sazama, Ill. Nat. Hist. Surv. B. 17, 261-275, 1928.
- Insects and plant diseases — Cranberry falseblossom**  
 Beckwith, Am. Cranberry Grow. Assoc. Proc. 59, 21, 1929.  
 ibDobrosky, Am. Cranberry Assoc. Proc. 58, 6-11, 1928.  
 Stevens, Amer. Cranberry Grow. Assoc. Proc. 57, 23-25, 1, 1926.
- Insects and plant diseases—Fireblight**  
 Brooks, Phytopathology 16, 692, 1926.  
 Jones, Sci. Agr. 9, 458-462, 1929.
- Insects and plant diseases—Heart rot of celery**  
 ibLeach, Phytopathol. 17, 663-667, 1927.

**Insects and plant diseases—Leaf roll**

Bushnell & Tilford, Ohio Bi-Mo. B. 125, 42-43, 1927.

**Insects and plant diseases—Mosaic**

bDoolittle & Walker, J. Agr. Res. 31, 1-57, 1925.

Durrell & LeClerg, Col. B. 323, 23, 1927.

Elmer, Iowa Research B.82, 69-71, 1925.

Weber & Forester, Fla. B. 195, 325-326, 1928.

**Insects and plant diseases—Mosaic of cucumbers**

Leach, Minn. Hort. 53, 177-179, 1925.

Melhus & Elmer, Iowa C. 99, 10, 1925.

ibWalker, Phytopath. 15, 734-744, 1925.

Weber, Fla. B. 268, 23-27, 1929.

**Insects and plant diseases—Mosaic of raspberry**

Rankin, N. Y. Gen. B. 543, 35-48, 1927.

bWinter, J. Ec. Ent. 22, 486-490, 1929.

**Insects and plant diseases—Pansy spot**

iChilds, J. Ec. Ent. 20, 805-809, 1927.

Newcomer, Better Fruit 16:4, 10, 1921.

Venables, B. C. Ent. Soc. Proc. 22, 9-12, 1925.

**Insects and plant diseases—Potato**

Goss, Phytopath. 18, 445-448, 1928.

bSchultz & Folsom, Potato Assoc. Amer. Proc. 15, 203-227, 1928.

**Insects and plant diseases—Raspberry leaf curl**

bSmith, J. Ec. Ent. 18, 509-513, 1925.

**Insects and plant diseases—Soft sour rot of orange**

Boncquet, Cal. Cult. 68, 444-445, 1927.

**Insects and plant diseases—Witches' broom**

Young, Science 66, 307-309, 1927.

**Insects and plant diseases—Stigmonose of pear**

— Pac. Rur. Press 118, 607, 1929.

**Insects and plant diseases—Strawberry xanthosis—(Yellows)**

biPlakidas, J. Agr. Res. 35, 1057-1090, 1927.

**Insects and plant diseases—Sugar beet curly top**

ibCarsner, Phytopath., 15, 745-757, 1925.

iCarsner, J. Agr. Res. 33, 345-348, 1926.

Carsner & Stahl, Facts about Sugar 20, 230-233; 254-256; 278-280, 281, 1925.

Severin & Severin, J. Ec. Ent. 20, 586-588, 1927.

ibSeverin & Henderson, Hilgardia 3, 339-384, 1928.

**Insect and plant diseases—Yellow disease & leafhopper**

— Market Growers Jour. 38; 3, 31, 1926.

**Insects and radio**

— Lit. Dig. 100, 62-63, 1927.

**Insects and raspberry pollination**

Johnston, Hoosier Hort. 11, 59-61, 1929.

**Insects and soil deterioration**

bMcColloch, Amer. Soc. Agron. J. 18, 143-150, 1926.

**Insects and storms**

Felt, N. Y. St. Mus. B. 274, 74-76, 1928.

**Insects and super-vacuum**

Lutz, Nat. Hist. 29: 2, 167-168, 1929.

**Insects and trap crops that entrap**

Smyth, J. Ec. Ent. 18, 550, 1925.

**Insects and vitamin research**

ibSweetman & Palmer, J. Biol. Chem. 77: 1, 32-52, 1928.

**Insects and weather**

Shelford, J. Ec. Ent. 19, 251-260, 1926.

**Insects and weeds**

Sweetman, Ann. Ent. Soc. Amer. 21: 594-600, 1928.

**Insects—Antennae—Olfactory function**

bGlaser, Psyche 34, 209-215, 1927.

**Insects as food—Corixa mercenaria**

Barber, Ent. News 39, 17, 1928.

iThompson, Guide to Nat. 20; 9, 129-134, 1928.

W. H. B., J. N. Y. Ent. Soc. 33, 232, 1925.

**Insects as litigants**

bWeiss, Ent. News 37, 297-299, 1926.

**Insects at lookout stations—New Jersey**

Weiss, N. J. Dept. Agr. Bur. Stat. C. 106, 1927, 21 p., C. 137, 1928, 18 p.

**Insects at sea**

Felt, N. Y. St. Mus. B. 274, 70-72, 1928.

**Insects—Atop skyscrapers**

Schiffer, Brklyn. Ent. Soc. B. 24: 260, 1929.

**Insects—Auditory sense**

iaAaron, Sci. Amer. 132, 390-391, 1925.

Allard, Smithsonian. R. f. 1928, 587, 1929.

iDahlgren, Nat. Hist. 25, 233-240, 1925.

Fulton, Sci. Mo. 27, 552-556, 1928.

**\*Insects—Australia & New Zealand**

Smith, Cal. Agr. B. 16, 355-356, 1927.

Smith, Pan-Pac. Ent. 4, 36-37, 1927.

**Insects—Bacteria in**

Brown, Amer. Mus. Nov. 251, 1927, 10 p.

**Insects—Biology**

iCarpenter, Biology of insects, 1928, 473 p.

**Insects—Breeding plants to resist**

Heppner, Better Crops 3: 13-14, 30, 1925

**Insects—British Columbia—1928**

Hearle, Ont. Ent. Soc. R. 59, 31, 1929.

Lyne, Cal. Dept. Agr. Sp. Pub. 85, 106-107, 1928.

iRughmann, B. C. Dept. Agr. B. 68, ed. 2, 1924, 58-97.

Smith, Am. Anthropologist 27: 436-440, J1, 1925.

**Insects—Carbon dioxide**

Thorpe, Science 68, 433, 1928.

**Insects—Chemical senses**

Minnich, Quart. Rev. Biol. 4, 100-112, 1929.

**Insects—Chemotropic studies**

iPeterson, J. Ec. Ent. 19, 863-866, 1926.

**Insects—"Cleaning up" habit**

bMote, Wilcox & Davis, J. Ec. Ent. 19, 745-748, 1926.

**Insects—Collection and preservation**

iClaassen & Sibley, Lloyd Library B. 27, 83-86, 1926.

Davis, Pan-Pac. Ent. 2, 180, 1926.

Engelhardt, Brklyn Ent. Soc. B. 22, 251-253, 1927.

Felt, N. Y. St. Mus. Hdb. 6, 61-103, '29.

iFox, Successful farming 25: 5, 38, 1927.

iFriederichs, J. Ec. Ent. 22, 420, 1929.

iGorham, Can. Ent. 60, 103-108, 1928.

Gunder, Can. Ent. 61, 97-98, 1929.

Hanham, Ent. Soc. B. C. Proc. 21, 15-20, 1924.

Hatch, Ent. News 37, 329-332, 1926.

Hebard, Ent. News 40, 110-116, 1929.

iHolbrook, J. Ec. Ent. 20, 642-643, 1927.

Kelsheimer, Ann. Ent. Soc. Amer. 21: 436-444, 1928.

iLutz, Nat. History 25, 127-135, 1925.

Lutz, Amer. Mus. Nat. Hist. Guide Leaf. 39, ed. 6, 1927, 27 p.

iMcDunnough, Can. Dept. Agr. Ent. Br. Pam. 14, n. s. rev. ed. 1923, 14 p.

Mansuy, U. S. F. B. 1601; 1929, 19 p.

Matheson, J. Ec. Ent. 22, 270-271, 1929.

iMetcalf, Ent. News 37, 203-204, 1926.

Porter, Ent. News 37, 325-328, 1926.

Porter, Ent. News 38, 170-175, 1927.

iSmith, Kans. Acad. Sci. Tr. 31, 77-81, 1929.

Torre Bueno, Can. Ent. 57, 6, 53, 1925.

Wyatt, Ent. News 38, 214-215, 1927.

Edward, Internat. Cong. Ent. 4, Tr. 2, 416-417, 1929.

**Insects—Common names**

Hyslop, Psyche 36, 107-111, 1929.

McAtee, Ent. News 37, 269, 1926.

Merrill, Fl. St. Plant Bd. Quar. B. 7; 4, 177-298, 1923.

**Insects—Common names — Approved A. A. E. E.**

— J. Ec. Ent. 18, 521-545, 1925; 19, 797-799, 1926; 20, 837-839, 1927; 22: 825, 1929.

**Insects—Communication**

McIndoo, Smith. R. f. 1928, 541-562, '29.

**Insects—Communism**

iSnyder, Sci. Monthly 21, 466-477, 1925.

**Insects—Defects caused in timber**

biSnyder, U. S. D. A. B. 1490, 1927, 46 p.

**Insects—Digestive enzymes**

bSwingle, Ohio J. Sci. 25, 209-218, 1925.

**Insects—Dispersal by air currents**

Felt, J. Ec. Ent. 18, 152-156, 1925.

Felt, N. Y. St. Mus. B. 260, 38-39, 50-51, 1925.

Felt, N. Y. St. Mus. B. 267, 44-45, 1926.

bFelt, N. Y. St. Mus. B. 274, 60-129, 1928.

**Insects—Distribution**

bCook, Ecology 10: 3, 282-293, 1929.

Felt, Ont. Ent. Soc. R. 56, 44-47, 1926.

**Insects—Ectoparasitic orders**

Ewing, Proc. Ent. Soc. Wash. 28, 70 b, 1926

**Insects—Eyes**

iAaron, Sci. Amer. 132, 32-33, 1925.

iEltringham, Sci. Amer. 135, 407-408, 1926.

**Insects—Flight**

Lutz, Amer. Mus. Nov. 291, 1-4, 1928.

Townsend, J. N. Y. Ent. Soc. 35, 245-252, 1927.

Townsend, Sci. Mo. 22, 307-311, 1926.

Townsend, Sci. Mo. 22, 469-472, 1926.

**Insects—Loss of flight**

Parshley, Am. Mercury 17, 329-331, July 1929.

**Insects flight—Wing motion**

— Sci. Amer. 132, 338, 1925.

**Insects—Food habits**

- Garman, Fla. Quar. B. 38: 4, 60-66, 1928.  
Grant, Ent. News 38, 120-121, 1927.  
Weiss, Ohio J. Sci. 25, 253-254, 1925.  
Weiss, Psyche 32, 92-94, 1925.  
Weiss, Amer. Nat. 60, 102-104, 1926.

**Insects—Fossil**

- Berry, Sci. Mo. 24, 268-278, 1927.  
Carpenter, B. Harvard Mus. Comp. Zool. 67, 437-444, 1926.  
Cockerell, Sci. Amer. 135, 264-265, 1926.  
bHatch, Brooklyn Ent. Soc. B. 21, 137-144, 1926.  
Price, P. U. S. N. M. 71, Art. 23, 5, 1928.  
Tillyard, Amer. J. Sci. 10, 41-73, 1925;  
11, 58-73, 133-164, 381-395, 1926; 16,  
185-220, 469-484, 1928.

**Insects—Freezing**

- Payne, Quart. R. Biol. 1, 270-282, 1926.

**Insects—Geographical distribution**

- VanDyke, Internat. Cong. Ent. 4, Tr. 2, 555-566, 1929.

**Insects—Geotropism**

- ibCrozier & Stier, J. Gen. Phys. 11, 803-821, 1928.

**Insects—Growth**

- bCalver, Proc. Am. Philos. Soc. 68, 227-274, 1929.

**Insects—Habits and behavior**

- Balfour-Brown, Concerning the habits of insects, 1925, 169 p.  
Hingston, Instinct & Intelligence, 1929, 296 p.  
Myers, Brklyn Ent. Soc. B. 23, 157-173, 1928.  
Wellhouse, Insects, how they live, 1926, 435 p.

**Insects—Hawaiian Islands**

- ilCockerell, Nat. Hist. 26: 191-199, Mr. '26.  
Swezey, J. Ec. Ent. 22, 851-857, 1929.

**Insects—Heartbeat**

- bGerould, Biol. B. 56, 215-225, 1929.

**Insects—Hibernation**

- Dennys, Proc. Ent. Soc. B. C. 24, 19-26, '27.  
Payne, Ent. News 37, 99-101, 1926.

**Insects—Holopneustic—air sacs**

- Lee, Science, n. s. 69, 334-335, 1929.

**Insects—Hydrogen ion in blood**

- lbBiol. B. 51, 363-369, 1926.

**Insects—Illinois—types**

- Frison, Ill. Nat. Hist. Surv. Urbana B. 16; Art. 4, 137-309, 1927.

**Insects—Imported**

- Bell, Nat. Nurserym. 36; 20, 16, 1929.  
Gibson, Canada Hort. Fruit & Truck ed. 41, 38, 1928.  
Herrick, Cornell Rur. Sch. L. 21; 1, 41-55, 1927.  
iHerrick, Sci. Month. 29, 269-274, 1929.  
Lawrence, Bartlett Tree Res. Lab. Tree Talks II, 17-20, 1929.  
Motherwell, Can. Min. Agr. R. f. 1929, 121-124.  
Sheppard, Ont. Ent. Soc. R. 56, 50-54, 1926.  
Warner, Fla. St. Plt. Bd. Mon. B. 12, 209-213, 1928

**Insects—In bird houses or bird nests**

- McAtee, Proc. Ent. Soc. Wash. 29, 87-94, 180-184, 1927; 31, 105-111, 1929.

**Insects—In the desert**

- Felt, N. Y. St. Mus. B. 274, 72-73, 1928.

**Insects—In flooded area**

- Miss. St. Pt. Bd. Quar. B. 7, 1, 21-22, 1927.

**Insects—In steam vent**

- Proc. Amer. Acad. Arts & Sci. 59, 423, 1924.

**Insects—In upholstered furniture**

- iBack & Cotton, Nat. Warehousemen's Assoc. 1926, 15 p.  
Back & Cotton, Furniture Mfg. 55: 55-59, 1928.

**Insects—Inbreeding—prevention of**

- Poulton, Internat. Cong. Ent. 4, Tr. 2, 582-588, 1929.

**Insects—Increase**

- Peirson, Me. For. Serv. B. 5, 15-16, 1927.

**Insects—Injurious and beneficial**

- ilBade, House Beautiful, 60: 604, N. 1926.  
ilBade, House Beautiful, 61: 342, Mr. 1927.  
Brannon, Prog. F. 42: 646, Je. 18, 1927.  
Burr, Neb. Ann. R. 40, 17-18, 1927.  
Call, Kans. R. 1924-1926, 71-73.

- bCameron, Sci. Progress, 20, 92-108, Jl, 1925.

- Craig, Cal. Countryman, 16; 9, N. 1929.

- Day, Purdue Ag. 19, 121, Mr. 1925.

- Davis, Hoosier Hort., 8: 11, 174-175, 1926.

- Davis, Purdue Ag. 21: 200, Je. 1927.

- ilDuffus, Collier's 75: 22-23, Ap. 18, 1925.

- iDunn, Can. Dept. Ag. Ent. Br. Pam. 55, 1925. 11 p.



**Insects—Injurious and beneficial—*Cont'd***

- iDuPuy, Our Insect Friends, 1925, 275 p.  
 Dupuy, Harper's Mo. 150: 435-440, '25.  
 Dupuy, Sugar 27: 181, Ap. 1925.
- iDuPuy, Nat. Mag. 10; 16-19, Jl, 1927.  
 Fernald, Applied Ent. ed. 2, 1926, 395p.  
 Filipjev, Internat. Cong. Ent. 4, Tr. 2, 813-820, 1929.  
 Gowdey, J. Jam. Agr. Soc. 28, 356-359, '24.  
 Greiner, Market Growers J. 36: 139, F. 15, 1925.
- iGrinstead, Successful Farm. 24; 3, 44, '26.
- ibHerrick, Manual Inj. Insects, 1925, 489p.  
 Herrick, Insects injurious to the Household, 1926, 478 p.
- iHoward, Sci. Amer. 136, 114-115, 1927.
- iKelley, Nat. Safety News, 16: 41-42, Jl, 1927.  
 Kellogg, World's Work 49, 477-482, 1925.
- iLovett, Ore., Bd. Hort. R. f. 1923: 122-141.
- MacLaren, La Hacienda, 22: 45-47, F. 1925.
- iMacLeod, Penn. St. Farm 20: 7, Mr. '27.  
 Metcalf & Flint, Key to orders of insects ed. 2, 1927, 41 p.
- iMote, Oreg. C. 65: 1-40, 1926.  
 Newell & Berger, Cit. Ind. 4; 8, 5, 1923.  
 Parshley, Am. Mercury 2, 333-335, '25.
- iPena, La Hacienda 22: 280-281, S. 1927.  
 Rockwell, House & Gard. 51: 196 '27.  
 Ruhmann, B. C. Ag. Dept. B. 68 (2 ed); 58-97, 1924.  
 Theobald, World Today, 45: 422-427, Ap. 1925.  
 Van & Buren Eastman, N. Y. St. Dept. Agr. & Mkts. C. 373, 1929, 88 p.
- iWebster, Dakota F. 45: 145, 168, 169, '25.
- Insects—Injurious to Milk**  
 Lipman, N. J. R. 49, 41, 1928.
- Insects—Injurious to metal**  
 Snyder, Nat. Mag. 8, 277-278, 1926.
- Insects—Insecticidal immunity**  
 Woglum, J. Ec. Ent. 18, 597, 1925.
- Insects—Life histories**  
 Smith, J. Ec. Ent. 19, 708-714, 1926.  
 Van Dyke, J. Ec. Ent. 19, 703-707, 1926.  
 iWellhouse, How insects live, 1926, 435p.
- Insects—Locality labels**  
 Fulton, Ent. News, 40, 145-150, 1929.
- Insects—Locomotion**  
 Lutz, Nat. Hist. 29: 2, 162-165, 1929.

**Insects—Losses caused by**

- Back & Cotton, U. S. F. B. 1483, 1, 1926.
- Bishopp, The Cattleman, 12; 10, 119, 121, 123, 1926.
- Bishopp, Amer. Farming 23; 5, 3, 1928.
- Borodin, J. Ec. Ent. 19, 227-235, 1926.
- Brock, Cit. Leaves 9; 2, 9, 1929.
- Fernald, Applied Ent. ed. 2, 32-37, 1926.
- Gibson, Sci. Agr. 7, 440-445, 1927.
- Hartzell, Ann. R. Mich. St. Hort. Soc. 57, 14, 1927.
- Headlee, Nat. Nurseryman. 36; 15, 8, 1929.
- Herms, J. Ec. Ent. 19, 262, 1926.
- iHerod, Purdue Agr. 24; 3, 56 & 70, 1929.
- Hough, Sc. Amer. 141, 124-127, 1929.
- iHoward, Nat. History, N. Y. 26, 124-132, 1926.
- iHoward, Sci. Amer. 136; 2, 114-115, '27.
- Jardine, Canning trade 50; 8, 8, 1927.
- Jones, Holloway & Haley, Sugar B. 5; 14, 5, 1927.
- iKeen, Cal. Dept. Resources Div. For. B. 7, 10-12, 1928.
- King, Sci. Agr. 9, 375-377, 1929.
- Maddox, St. N. 53, 720-721, May, 1926.
- Marlatt & Hyslop, Amer. Nurseryman. 50, 216, 1929.
- Metcalf, Ont. Ent. Soc. R. 55, 30-46, 1925.
- Metcalf & Flint, Dest. & Usef. ins. 1-33, 1928.
- Mooers, Tenn. R. 41, 35-39, 1928.
- Parman, J. Ec. Ent. 19, 644, 1926.
- iPlyler, Wash. Post. Mag. Sept. 15, 1929, 4-5.
- Rudolfs, J. Chem. Ed. 6; 6, 1103-1104, 1929.
- Snyder, Nature Mag. 5, 311, 1925.
- Snyder, Save the Surface Mag. 5; 4, 11, 1925.
- Stewart, Better Crops 13; 2, 17-18, 1929.
- Weigel, Amer. Hort. Soc. B. 3, 1926, 1.
- USDA, FHB SRA 82, 37-39, 1925.
- Insects—Man's influence on**  
 Essig, Sci. Mo. 25, 499-506, Je. 1929.
- Insects—Needed in orchards**  
 Beatty, Garden & Home Bldg. 42, 283, 1925.
- Insects—Nervous system**  
 biHilton, Ann. Ent. Soc. Amer. 18, 537-542, 1925.
- Hilton, Science 62, 372, 1925.

**Insects—New York—List**

Leonard, N. Y. C. M. 101, 1928, 1121 p.

Felt, N. Y. St. Mus. B. 274, 145-176, 1928.

**Insects—Newly established—New York**

Felt, J. Ec. Ent. 20, 63-67, 1927.

**Insects—Nomenclature**

Felt, N. Y. St. Mus. B. 267, 45-46, 1926.

**Insects—Nomenclature—Body wall**

bSnodgrass, Ent. News, 40, 150-154, 1929.

**Insects—North American, Wood engravers**

bWeiss & Zeigler, J. N. Y. Ent. Soc. 36,

421-433, 1928; 37, 439-440, 1929.

**Insects—Utah—streams**

iNeedham & Christenson, Utah B. 201,

1927, 36 p.

**Insects—Number of living**

Herrick, Ent. News 37, 207-210, 1926.

— Farm Journal 50; 7, 42, 1926.

**Insects of snow, see Snow insects****Insects of the Panchatantra**

Weiss, J. N. Y. Ent. Soc. 33, 223, 1925.

**Insects of the "Physiologus," by Carlill**

Weiss, J. N. Y. Ent. Soc. 33, 238-242,

1925.

**Insects of Thoreau's writings**

iWade, J. N. Y. Ent. Soc. 35, 1-21, 1927.

**Insects—Physiology**

Bodine & Fink, J. Gen. Physiol. 7, 735-

740, 1925.

bWelch, Ann. Ent. Soc. Amer. 20, 429-

436, 1927.

**Insects—Polyembryony**

Leiby, Internat. Cong. Ent. 4, Tr. 2,

873-887, 1929.

**Insects—Relation to slash disposal**

bCraighead, U. S. D. A. Dept. C. 411,

1927, 12 p.

**Insects—Resistant to control measures**

Melander, Am. Fr. Gr. Mag. 46; 2, 7,

1926.

**Insects—Respiration**

biCrozier & Stier, J. Gen. Physiol. 7, 429-

447, 1925.

Krogh, J. Wash. Acad. Sci. 13, 161, 1923.

Lee, Science 66, 132, 1927.

bLee, Quar. Rev. Biol. 4, 213-232, 1929.

Mackay, Science 65: 446, 1927.

**Insects—Revival after fumigation**

Hamlin & Reed, J. Ec. Ent. 20, 400-427,

1927.

**Insects—Scientific names of economic**

Doane, J. Ec. Ent. 18, 158-162, 1925.

**Insects—Senses**

iAaron, Sci. Amer. 132, 248, 1925.

iBastin, Sci. Amer. 137, 531, 1927.

iBastin, La Hacienda 23, 93-94, 1928.

iMcIndoo, Sci. Month. 25, 481-503, 1927.

iMcIndoo, Sm. Misc. Col. 81: 10, 1929,

59 p.

bMinnich, Quar. Rev. Biol. 4, 100-112,

1929.

Price, J. Ec. Ent. 18, 448, 1925.

biSnodgrass, Smithsonian. Misc. Col. 77; 8,

1926, 80 p.

— Calif. Cult. 68, 377, 1927.

**Insects—Strength and weight**

Hiestand, Ann. Ent. Soc. Amer. 21, 601-

606, 1928.

**Insects—Surgical shock**

Robinson, J. Agr. Res. 27, 743-748, 1927.

**Insects—Type specimens**

McAtee, Proc. Ent. Soc. Wash. 27, 181-

187, 1925.

**Insects—United States**

iHerrick, Manual, 1925, 489 p.

**Insects vs. men**

Boyle, Atlantic 144, 529-535, 1929.

iDuffus, Collier's 75, 22-23, Apr. 18, 1925.

Dupuy, Harper 150, 435-440, Mar. 1925.

DuPuy, Sugar, 27, 181-182, 1925.

Ebeling, Cal. Countryman, 16; 4, 11, 1929.

Fernald, Sci. Mo. 27, 193-205, 1928.

iFrazer, Sat. Eve. Post. 200; 28, 16-17,

53-54, 59, J. 1928.

Howard, N. Y. Times Mag. Sunday,

Jan. 20, 1929, Sec. 5, 12, 22.

Hume, Cit. Leaves, 9; 11, 3, 1929.

iMarlatt, Nat. Republic 17; 7, 5, 6, 38, '29.

Peck, Amer. Flor. 69: 2052, 12, 1927.

Reasoner, Vet. Med. 21, 175-181, 1926.

Stewart, Better Crops with Plant Food,

13; 2, 17-18, 58-60, 1929.

iTeale, Pop. Mech. 113: 6, 27-28, 1928.

iWheeler, Foibles of insects and man,

1928, 217 p.

Wisehart, Amer. Mag. 105; 3, 14-15, 67,

68, 70, Mar. 1928.

**Insects—Water binding of colloids**

iRobinson, J. Ec. Ent. 20, 80-88, 1927.

**Insects—Winter habits**

iAaron, Sci. Amer. 134, 34-35, 1926.

**Inspection**

Bentley, Tenn. Pl. Dis. Control. B. 44,

1924, 87 p.

**Inspection Cont'd**

- Bishop, Ariz. Com. Agr. & Hort. R. 15-16, 28-37, 1925.  
 Lincoln, Ark. Hort. Soc. Proc. 47, 30-44, 1928.  
 — Ariz. Com. Agr. & Hort. R. 15-16, 28-32, 1925.  
 — Cit. Indus. 10; 1, 7, 1929.  
 — USDA FHB SRA (Supp.), 1-76, 1926; 89 (Supp.), 1-58, 1927; 93 (Supp.), 165-224, 1928.  
 — USDA PQCA SRA 97 (Supp.) 157-234, 1929.
- Inspection—Apiaries**  
 Britton, Conn. B. 305, 703-712, 1928.
- Inspection—Argentine corn**  
 Robertson, B. C. Dept. Agr. R. 22, Q. 31, 1928.
- Inspection—Arizona—report**  
 Bartlett, Cal. Dept. Agr. Sp. Pub. 85, 28-30, 1927.
- Inspection—Greenhouse**  
 Drake, Iowa Yrbk. Agr. 28, 140-142, 1928.  
 Lieber, Ind. Dept. Conserv. R. 10, 55-59, 1928.
- Inspection—Imported stock**  
 Britton & Zappe, Com. B. 305, 701-703, 1929.  
 Fleury, Cal. Dept. Agr. Sp. Pub. 84, 1928, 29 p.  
 Mariatt, USDA FHB R. f. 1925, 9-21; R. f. 1926, 14-27; R. f. 1927, 2-24; R. f. 1928, 4-29.  
 — USDA FHB SRA 89; (Sup.) 58p., 1927.  
 — USDA PQCA SRA 97 Sup. 157-234 Ann. Letter of Inform. 41.
- Inspection—Nursery**  
 Anderson, La. Com. Agr. & Immig. Bien. R. 23, 24-25, 1928.  
 Bentley, Tenn. Bd. Ent. B. 44, 1924, 87 p.  
 Bentley, Tenn. Pl. Dis. Cont. B. 46, 1926, 62 p.  
 Chambers, Wis. Hort. 20; 4, 122-123, 1929.  
 Del Curto, Tex. Com. Agr. R. f. 1927-28, 41.  
 Fracker, Wis. Dept. Agr. B. 69, 60-62, 1924.  
 Gillette, Colo. Ent. C. 47, 10, 1925.  
 Gillette, Colo. Ent. C. 51, 7-10, 1926.

- Glenn, Ill. Dept. Agr. R. 12, 17, 1929.  
 Goodwin, Fla. St. Hort. Soc. Proc. 41, 125-128, 1928.  
 Lieber, Ind. Dept. Conserv. R. 6, 28-35, 1925.  
 Lyne, B. C. Dept. Agr. R. 19, K 30, '25.  
 Marble, Wash. St. Hort. Soc. Proc. 23, 186-189, 1928.  
 Pyrke, N. Y. Dept. Agr. & Markets C. 344, 1927, 28 p.; C. 397, 1929, 35 p.  
 Scholl, Tex. Dept. Agr. B. 78, 1925, 44p.  
 Shaw, Mass. Ext. Leaf. 110, 1926, 2 p.  
 Van Buren & Eastman, N. Y. Dept. Agr. & Markets C. 364, 1929; 32 p. C. 397, 1929, 35 p.  
 Wallace, Ind. Ent. R. f. 1927, 10-22, 1927.  
 Wallace, Ind. Dept. Conserv. R. 10, 53-54, 1929.  
 — Conn. B. 275, 232-246, 1926.  
 — Wis. Dept. Agr. B. 98, 89-96, 1929.
- Inspection—Nursery—In billing yard**  
 Dennison, Tenn. Hort. Soc. Proc. 23, 116-118, 1928.
- Inspection—Nursery, Col. Certificates**  
 Gillette, Colo. Ent. C. 47, 10, 1925.
- Inspection—Nursery—Conn.**  
 Britton, Conn. B. 294, 210-221, 1928.
- Inspection—Nursery—Does it pay.**  
 Chambers, Wis. Hort. 16, 130-131, 1926.
- Inspection—Nursery—Florida**  
 Goodwin, Fla. Month. B. 12, 205-209, 1928.
- Inspection—Nursery—Ind.**  
 Lieber, Ind. Dept. Conserv. R. 7, 33-41, 1925; R. 8, 32-41, 1926; R. 9, 30-42, 1927. R. 10, 45-52, 1928.  
 — Ind. Dept. Conserv. Div. Ent. R. f. 1924, 6, 1925; R. f. 1927, 10-15, '28.
- Inspection—Nursery—Iowa**  
 Drake, Iowa Yrbk. Agr. 28, 133, 1928.
- Inspection—Nursery—Tenn.**  
 iBentley, Tenn. Dept. Agr. Bien. R. 1923-24, 35, 1924.
- Inspection—Nursery—Texas.**  
 Delcurto, Tex. Dept. Agr. B. 96, 1-32, 1929.
- Inspection—Nursery—Wis.**  
 Chambers, Wis. St. Dept. Agr. B. 98, 89-96, 1929.
- Inspection—Orchard**  
 Bentley, Tenn. Dept. Agr. Bien. R. 1923-24, 77, 1924.

- Dean, Ida. Dept. Agr. Bien. R. 3, 40, '24.  
 Gates, Kans. Ent. Com. Bien. R. 10, 25-29, 1927.  
 Yapp, Kans. Ent. Com. Bien. R. 11, 6-12, 1929.  
 Watkins, Mich. St. Dept. Agr. Bien. R. 1, 145, 1924.
- Inspection—Pacific Fleet.**  
 — Cal. Frt. News 72; 1945, 3, 1925.
- Inspection—Port**  
 Bier, Penin. Hort. Soc. Tr. f. 1927, 60-62.  
 Strong, J. Ec. Ent. 18, 487, 1925.
- Inspection service—Plant, Canada**  
 McLaine, J. Ec. Ent. 10, 453, 1927.
- \*Introduced pine sawfly, see *Diprion simile***  
**\*Io moth, see *Automeris io***
- Iphiaulax bipunctipennis* 214-215, bucephalus 212-214, caracticus 224-225, fulvoater 215-216, microphthalmus 227-228, minyas 222-223, radiator 216-217; nBrues, Proc. Amer. Acad. Arts & Sci. 61, 1926.**
- Iphidicles ajax***  
 Clark, Psyche, 32, 297, 1925.
- Ipidae***  
 Eggers, Philippine J. Sci. 33, 67-108, 1927.  
 nSwaine, Can. Ent. 57, 192-197, 1925.
- Ipobracon grenadensis***  
 Earle, Facts about Sugar 22, 969, 1927.  
 Sein, P. R. Insul. R. f. 1927-8, 96, 1929.
- Ipobracon tucumanus***  
 Earle, Facts about Sugar 22, 969, 1927.
- Ipochus insularis***  
 nBlaisdell, Proc. Cal. Acad. Sci. ser. 4; 14, 14, 340-341, 1925.
- Ips avulsus***  
 St. George, Amer. Lumberman No. 2601, 48, 1925.  
 iSt. George & Beal, U. S. F. B. 1586, 8-13, 1929.  
 — J. Ec. Ent. 18, 433, 1925.
- Ips calligraphus* and *bluestain***  
 bNelson & Beal, Phytopathology, 19, 1102, 1929.
- Ips chamberlini***  
 nSwaine, Can. Ent. 57, 196-197, 1925.
- Ips confusus, emarginatus, latidens***  
 iKeen, Cal. Dept. Nat. Resources B. 7, 45-49, 1928.
- Ips oregoni* (Oregon pine bark beetle)**  
 iKeen, Cal. Dept. Nat. Resources B. 7, 49, 1928.
- Ips perturbatus***  
 Peirson, Me. For. Serv. B. 5, 121, 1927.  
 Watson, Can. Ent. 59, 120-121, 1927.
- Ips pini* (Eastern pine bark beetle)**  
 iPeirson, Me. For. Serv. B. 5, 108, 1927.
- Ips plastographus***  
 Keen, Cal. Dept. Nat. Resources Div. For. B. 7, 49, 1928.
- Ips ponderosae***  
 nSwaine, Can. Ent. 57, 197, 1925.
- Ips radiatae***  
 iKeen, Cal. Dept. Nat. Resources B. 7, 42-44, 1928.
- Ips*—*spp.***  
 Doane, J. Ec. Ent. 20, 284-286, 1927.  
 iSt. George, Amer. Lumberman No. 2607, 50-51, 1925.  
 Keen, Cal. Dept. Nat. Resources Div. For. B. 7, 41-53, 1928.
- Irbisia nigripes***  
 nKnight, Can. Ent. 57, 94-95, 1925.
- Irbisia solani***  
 Herms, J. Ec. Ent. 19, 269, 1926.
- Irenella g. nov.***  
 nRiley, Proc. Biol. Soc. Wash. 40, 23, 1927.
- Iridomyrmex albitarsus***  
 niWheeler, Amer. Acad. Arts & Sci. Proc. 62; 4, 148-149, 1927.
- Iridomyrmex humilis* (Argentine ant)\***  
 Becker, Cal. Cult. 71, 238, 1928.  
 Berly, S. C. C. 32, 17, 1924.  
 Brock, Cal. Agr. Mo. B. 18, 516, 1929.  
 Earle, Facts about Sugar, 22, 1010, 1927.  
 iEssig, Insects of Western No. Amer. 1926. 864-866.
- iFernald*, Applied Ent. ed. 2, 375-377, '26.**  
 Goodwin, Cit. Indus. 7; 2, 26, 1926.  
 Grimes, Miss. St. Pt. Bd. Quar. B. 8; 4, 5-6, 1929.  
 Harned, Miss. St. Pt. Bd. Quar. B. 8; 4, 26-29, 1929.
- iHickok*, Amer. City 32, 372, 1925.**  
 Holloway, Sugar B. 4; 8, 2-3, 1926.  
 Horton, USFB 1031 rev. Oct. 1926, 32-33.
- iRuffin*, Ala. Poly. Ext. C. 96, 1926, 4 p.**  
 Ryan, Los Angeles Co. Hort. R. 1924-25, 9, 1925.  
 Ryan, Cal. Cit. 11, 207, 1926.  
 Ryan, Cal. Dept. Agr. Mo. B. 16, 251, 1927.
- iRyan*, Cal. Cit. 13, 359, 1928.**  
 Ryan, Cal. Agr. Mo. B. 18, 365, 1929.  
 iRyan, Cit. Leaves 8; 9, 3, 4, 17, 1928.

**Iridomyrmex humilis** *Cont'd*

- Smith, J. Ec. Ent. 20, 646-647, 1927.  
 Vansell, Cal. Cult. 65, 223, 1925.  
 Watson, Fla. Dept. Agr. Quar. B. 39; 3,  
 235-236, 1929.  
 iWells, La Hacienda, 23, 233, 1928.  
 Woglum, Cal. Citrog. 10, 231, 1925.

**Iridomyrmex iniquus**

- Smith, J. Ec. Ent. 22, 241-243, 1929.  
 Wheeler, Psyche 36, 89-90, 1929.

**\*Iris borer, see** *Macronoctua onusta***Iris insects**

- Churchill, C. Gentleman 93: 4, 55, 1928.  
 Ries, Amer. Iris Soc. B. for July 1929,  
 27-46.

**Ischiodontus granosus**

- nFall, Bklyn. Ent. Soc. B. 20, 180, 1925.

**Ischiogonus synagarii**

- Swezey, J. Ec. Ent. 19, 716, 1926.

**Ischnaspis longirostris** (Black thread scale)\*

- Severin, So. Dak. Ent. R. 15, 29, 1925.

**Ischnocybe**—n. gen., *plicata*

- nCook & Loomis, P. U. S. N. M. 72; 18,  
 21-24, 1928.

**Ischnolea longipilis**

- nFisher, P.U.S.N.M. 68, Art. 22, 7-9,  
 1926.

**Ischnopsidea alberta**

- niCushman, P. U. S. N. M. 72; 13, 1-2,  
 1928.

**Ischnoptera hercules**

- niRehn, Trans. Amer. Ent. Soc. 54, 130-  
 133, 1928.

**Ischnoscopus** spp.—Key

- Viereck, Can. Ent. 57, 223-224, 1925.

**Ischnorhynchus geminatus**

- Torre Bueno, Brklyn. Ent. Soc. B. 20,  
 60, 1925.

**Ischnus doddi**

- niCushman, PUSNM 72; 13, 5, 1928.

**Isia isabella**

- Champlain, Nat. Mag. 9, 353, 1927.

**Isochaetes ashtabel**

- nDyar, J. Wash. Acad. Sci. 17, 550, 1927.

**Isochaetes** spp.—Key

- Dyar, Ins. Insc. Mens. 14, 94, 1926.

**Isohydnocera liebecki, mima**

- nWolcott, Ent. News 39, 211-212, 1928.

**Isoparce cupressi** (Cypress sphinx)

- Bates, Fla. Ent. 12, 20-21, 1928.

**Isoperla**—Key to species

- bSeemann, J. Ent. & Zool. 19, 57, 1927.

**Isophrictis occidentalis**

- nBraun, Trans. Amer. Ent. Soc. 51, 188-  
 189, 1925.

**Isophrictis rudbeckiella, similiella**

- nBottimer, J. Agr. Res. 33, 808-811, 1926.

**Isosoma grandis**—(Wheat straw worm)\*

- Doane, J. Ec. Ent. 19, 730-732, 1926.  
 Essig, Insects of Western No. Amer.  
 1926. 847.

- Fernald, Applied Ent. ed. 2, 352-353,  
 1926.

- Pack, Utah B. 209, 54, 1929.

**Isosoma tritici** (Wheat joint worm)\*

- biBrannon, Elisha Mitchell Sci. Soc. J. 42,  
 99-100, 1926.

- Candler, Amer. Miller 53, 862, 1925.

- iChamberlin, Oreg. C. 86, 1928, 7p.

- iPettit, Mich. Sp. B., 183, 69-71, 1929.

- ibPhillips, J. Agr. Res. 34, 743-758, 1927.

**Isosoma vaginicolum** (Wheat sheath joint worm)

- Doane, J. Ec. Ent. 19, 730-732, 1926.

**Isotoma viridis**

- Felt, N. Y. St. Mus. B. 274, 156, 1928.

**Isostomyia**—Key to spp.

- Dyar, Ins. Insc. Mens. 13, 126, 1925.

**Isturgia truncataria**

- Latham, Bklyn. Ent. Soc. B. 24, 246, '29.

**Itame ribearia** (Currant Spanworm)\*

- Petch & Armstrong, Quebec Soc. Protec.  
 Plts. R. 17, 76, 1925.

**Itame schatzzeata**

- nCassino, Lepidopterist 4, 70-71, 1927.

**Itch mite, see** *Sarcoptes scabiei***Iteaphila curva**—Labrador

- nCurran, Can. Ent. 57, 24, 1925.

**Ithyercus noveboracensis** (New York weevil)\*

- Britton & Zappe, Conn. B. 292, 131, '27.  
 Perison, Me. For. Serv. B. 5, 38, 1927.

**Itonida hopkinsi**

- Keen, Cal. Dept. Nat. Res. B. 7, 92, '28.

**Itonididae**—Key

- ibFelt, N. Y. St. Mus. B. 257, 1925, 239p.

**Itopectis conquistator**

- bMuesebeck & Dohanian, U. S. D. A. B.  
 1487, 17-18, 1927.

**Itycorsia** sp.

- Keen, Cal. Dept. Nat. Resources B. 7,  
 84, 1928.

- Ivy Aphid, *see* *Aphis hederae*
- Ixias clarki*  
niAvinoff, Ann. Carnegie Mus. 16, 360, 1926.
- Ixodes cookei*  
Herrick, Rur. N. Y. 84, 1051, 1925.
- Ixodes holocyclus* & tick paralysis  
biBruce, J. Am. Vet. Med. Assoc. 68, 147, 1926.  
Campbell, Vet. Med. 24, (i.e. 23) 40, 1928.  
Mawson, J. Am. Vet. Med. Assoc. 74: 7, 1035, 1929.
- Ixodes scapularis*  
Miller, Ohio B. 386, 127-128, 1925.
- Ixodidae*  
Miller, Ohio B. 386, 126-127, 1925.  
Rosenau, Preventive Med. ed. 5, 350-358, 1927.
- Ixodiphagus caucurtei*  
Cooley, J. Ec. Ent. 19, 810, 1926.  
Cooley, Mont. St. Bd. Ent. Bien. R. 6, 15-17, 1926.  
Cooley, Amer. Pub. Health J. 18, 993-996, 1928.
- iCooley, Mont. St. Bd. Ent. Bien. R. 7, 17-28, 1928.  
Cooley & Kohls, Science 67, 656, 1928.  
Larrousse, et al., Science 67, 351-353, '28.
- Jack spaniard, *see* *Polistes annularis*
- Jalysus perclavatus*  
VanDuzee, Pan-Pac. Ent. 5, 166, 1929.
- Jamesia lineata*  
nFisher, PUSNM 68; 22, 14-15, 1926.
- Janus abbreviatus*  
Zappe, Conn. B. 275, 321-322, 1926.
- Janus integer* (Currant stem girdler)\*  
Chapman, Market Gr. J. 40; 1, 29, 1927.  
iPettit, Mich. St. Bd. Agr. R. 63, 216-218, 1924.
- \*Japanese beetle, *see* *Popillia japonica*
- Japanese maple scale, *see* *Leucaspis japonica*
- Japanese scale, *see* *Ceroplastes ceriferus*
- Japanese serica, *see* *Aserica castanea*
- Japyx kofoidi*  
niSilvestri, U. Cal. Pub. Ent. 4, 335-340, 1928.
- Jassus floridanus*, snowi, spp., key  
niLawson, Can. Ent. 59, 169-174, 1927.
- \*Jeffrey-pine beetle, *see* *Dendroctonus jeffreyi*
- Jerusalem artichoke—Pests  
Shoemaker, USDA Tech. B. 33, 19, '27.
- Jerusalem cricket, *see* *Stenopelmatus fuscus*
- Joblotia—Key to spp.  
Dyar, Ins. Insc. Mens. 13, 131, 1925.
- Jocara acheola* 24-25, amazonalis 26, anacita 25, andeola 25-26, athanasia 24, cantianilla 20, gillalis 23, hospitia 20-21, maurontia 23, mava 17, oduvalda 17-18, prudentia 21, sara 21-22, sisinnia 19, theodota 18-19, yva 22.  
niSchaus, Ann. Carnegie Mus. 16; 1, 1925.
- Jocarula*, n. gen.  
nDyar, Ins. Insc. Mens. 13, 219, 1925.
- Jollas peritas*  
niBanks, B. Mus. Comp. Zool. 69, 72, 1929.
- Joruma albifrons* 166-167, ascripta 167, atratula 170, aurata 168; nMcAtee, J. N. Y. Ent. Soc. 34, 1926.
- Joruma canalis*  
niOsborn, Ann. Carnegie Mus. 18, 282-283, 1928.
- Joruma cingulata*, coccinea  
nMcAtee, J. N. Y. Ent. Soc. 34, 166-167, 1926.
- Joruma curvata*  
niOsborn, Ann. Carnegie Mus. 18, 284-285, 1928.
- Joruma ebria*, feminea  
nMcAtee, J. N. Y. Ent. Soc. 34, 169, 1926.
- Joruma fumosa* 283, fuscoclavata 281, guatemalana 282, hyalina 284, luciana 282, nigricans 281-282, ornata 283-284.  
niOsborn, Ann. Carnegie Mus. 18, 1928.
- Joruma peltata*  
nMcAtee, J. N. Y. Ent. Soc. 34, 168, '26.
- Joruma pisca*  
Dozier, P. R. Dept. Agr. J. 10, 262, 1926.
- Joruma proxima* 168, semenula 169, spp.—  
Key 165-166, subaurata 168.  
nMcAtee, J. N. Y. Ent. Soc. 34, 1926.
- Joruma zonalis*  
niOsborn, Ann. Carnegie Mus. 18, 283, '28.
- Julus parasitized by Rhigonema*  
Christie & Cobb, J. Wash. Acad. Sci. 17, 17, 1927.
- Jumping bean, *see* *Carpocapsa saltitans*

- Jumping bullet gall, *see* *Neuroterus saltatorius*
- Jungle wasp, *see* *Microstigmus* sp.
- Juniper webworm, *see* *Dichomeris marginellus*
- Junonia coenia*  
 niAvinoff, Ann. Carnegie Mus. 16, 366, 1926.  
 Clark, Psyche 32, 295, 1925; 33, 3, 1926; 36, 29-33, 1929.  
 iDavis, Bklyn. Ent. Soc. B. 24, 12, 1929.  
 Gunder, Ent. News 36, 199, 1925.  
 iPolaeck, Md. Acad. Sci. Quar. B. 6; 3, 10-11, 1925.  
 Schrader, So. Cal. Acad. Sci. Bul. 25; 3, 77-82, 1926.
- Junonia coenia*—Inbreeding  
 iSchrader, Bul. So. Cal. Acad. Sci. 25; 3, 77-82, 1926.
- Junonia lavinia*  
 iForbes, J. N. Y. Ent. Soc. 36, 305-321, 1928.
- Jurassic insects  
 Cockerell, Psyche 35, 126-130, 1928.
- Jurinella fuscicornis* 8, major 8-9, minor 7-8, thoracica 9-10; nCurran, Amer. Mus. Novit. 200, 1925.
- Jurinia nitidiventris*  
 nCurran, Can. Ent. 60, 204, 1928.
- Kale insects**  
 McCollam, West Wash. B. 8-W (n.s.) 8-9, 1928.
- Kaliofenusa ulmi* (Elm leaf miner)\*  
 Petch & Armstrong, Quebec Soc. Protec. Plants R. 17, 74-75, 1925.  
 iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 28, 1926.
- Kaliosysphinga dohrnii* (Alder leaf miner)  
 iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 28, 1926.
- Kaliosysphinga ulmi*, *see* *Kaliofenusa ulmi*
- Kallebra* n. sp.  
 McAtee, J. N. Y. Ent. Soc. 34, 152, 1926.
- Kalotermes**—gen.  
 Snyder, Proc. Biol. Soc. Wash. 38, 156-157, 1925.
- Kalotermes approximatus*  
 Snyder, Proc. Ent. Soc. Wash. 27, 14, '25.
- Kalotermes arizonensis*  
 niSnyder, Cal. Univ. Pub. Zool. 28; 21, 393-394, 1926.
- Kalotermes asperatum*  
 niSnyder, J. Wash. Acad. Sci. 16, 20-22, 1926.
- Kalotermes bequaerti*  
 nSnyder, Proc. Ent. Soc. Wash. 31, 81-83, 1929.
- Kalotermes contracticornis*  
 niSnyder, J. Wash. Acad. Sci. 15, 153, 1925.
- Kalotermes costaricensis*  
 niSnyder, J. Wash. Acad. Sci. 16, 18-20, 1926.
- Kalotermes fairchildi* n.n.  
 Snyder, Proc. Ent. Soc. Wash. 28, 51, 1926.
- Kalotermes guatemalae*  
 niSnyder, J. Wash. Acad. Sci. 16, 22-23, 1926.
- Kalotermes hubbardi*  
 biLight, Cal. Univ. Pub. Zool. 29; 6, 141-158, 1926.  
 biLight, Cal. C. 314, 16-17, 1929.  
 Light, Pan-Pac. Ent. 6, 70, 1929.
- Kalotermes immigrans*  
 iFullaway, Timberman 28; 9, 170-176, 1927.  
 \* Herms, Pan-Pac. Ent. 2, 53, 1925.
- Kalotermes imminens, isthmi*  
 nSnyder, J. Wash. Acad. Sci. 15, 155, 198-200, 1925.
- Kalotermes liberatus*  
 nSnyder, Proc. Ent. Soc. Wash. 31, 81-83, 1929.
- Kalotermes lighti*  
 niSnyder, Cal. Univ. Pub. Zool. 28; 21, 395-396, 1926.
- Kalotermes magnoculis, manni*  
 nSnyder, PUSNM 68; 14, 5, 6-7, 1926.
- Kalotermes marlatti*  
 nSnyder, J. Wash. Acad. Sci. 16, 25-26, '26.
- Kalotermes minor*  
 Hungerford, Pan-Pac. Ent. 4, 2; 95, '27.  
 ibLight, Cal. C. 314, 16-17, 1929.  
 Light, Pan-Pac. Ent. 6, 70, 1929.
- Kalotermes nevermani*  
 nSnyder, J. Wash. Acad. Sci. 16, 26, 1926.
- Kalotermes occidentis*  
 Light, Pan-Pac. Ent. 6, 69-70, 1929.
- Kalotermes planus, recessifrons*  
 nSnyder, J. Wash. Acad. Sci. 15, 156-158, 1925.

- Kalotermes sepuvillus**  
niEmerson, Am. Mus. Nat. Hist. B. 57, 421-422, 1928.
- Kalotermes simplicicornis**  
ibLight, Cal. Univ. Pub. Zool. 29, 121-140, 467-492, 1926.
- Kalotermes sp.**  
Kirby, Cal. Univ. Pub. Zool. 29, 26-102, 1926.  
Snyder, Proc. Biol. Soc. Wash. 38, 156, 1925.
- Kalotermes suturis**  
nSnyder, J. Wash. Acad. Sci. 15, 159, 1925.
- Kalotermes thompsonae**  
nSnyder, J. Wash. Acad. Sci. 16, 23-24, 1926.
- Kapala astriaticeps**  
nGirault, Ins. Insc. Mens. 14, 66-67, 1926.
- Karema**—n. gen., *loewella*  
nCresson, Tr. Amer. Ent. Soc. 55, 182-183, 1929.
- Karnyothrips flavipes**, spp.—Synonymy  
iHood, Pan-Pac. Ent. 3, 175-178, 1927.
- Katydid**, *see* Tettigonidae
- Keirosoma**—n. gen. *albicinctum*  
niVan Duzee, PUSNM 74; 10, 24-25, 1928.
- Kermes** spp.  
iBritton & Zappe, Conn. B. 292, 151, '27.
- Kerteszhomyia**—n. gen., *maculifrons*  
nMalloch, P. U. S. N. M. 74: 6, 39, 1929.
- Kinnaridae**  
Muir, Pan-Pac. Ent. 1, 158, 1925.
- Knot-legged bulb fly**, *see* *Eumerus tuberculatus*
- Kofoidia**—n. gen., *loriculata*  
nibLight, Cal. Univ. Pub. Zool. 29; 18, 467-492, 1927.
- Kolla fasciata**  
Osborn, Porto Rico Dept. Agr. J. 13, 93, 1929.
- Kolla similis**  
Myers, Harvard Inst. Trop. Biol. & Med. Cont. 3, 72-82, 1926.
- Kophosoma acuticornis** 44-45, *bicolor* 41-42, *brevis* 45, *cornuta* 42-44, *fusciceps* 40-41; niVan Duzee, Tr. Amer. Ent. Soc. 52, 1926.
- Korinchia sinensis**  
nCurran, Ann. Ent. Soc. Amer. 22, 503-504, 1929.
- Kricogonia castalia**  
Wolcott, Ent. News 38, 97-100, 1927.
- Kurtomathrips** n. gen., *morrilli*  
Moulton, Brklyn Ent. Soc. B. 22, 187-190, 1927.
- Kyrtalus** n. gen., *mackiei*  
nVan Duzee, Pan-Pac. Ent. 6, 91-93, '29.
- Labelling of plates**—Of insects  
Hurst, Ent. News 39, 21, 1928.
- Labia abnormis**  
niHebard, Phila. Acad. Nat. Sci. Proc. 79, 40-41, 1928.
- Labia curvicauda**  
Rehn, Tr. Amer. Ent. Soc. 51, 25, 1925.
- Labia minor**  
iBuckell, B. C. Ent. Soc. Proc. 26, 17-19, 1929.
- Labidura bidens**  
Morgan, Ind. Acad. Sci. Proc. 34, 347-348, 1925.
- Labopella claripennis**  
nKnight, Can. Ent. 61: 215, 1929.
- Labopidea ainsliei**, *arizonae*  
nKnight, Can. Ent. 60, 233-235, 1928.
- Labopidea nigrisetosa**  
nKnight, Can. Ent. 57, 94, 1925.
- Labopidea pallida** 233-234, *planifrons* 234, *simplex* 235, *viridula* 234.  
nKnight, Can. Ent. 60, 1928.
- Labops burmeisteri**  
Knight, Can. Ent. 58, 60, 1926.  
Van Duzee, Pan-Pac. Ent. 2, 163, 1926.
- Labops verae**  
nKnight, Can. Ent. 61, 214-215, 1929.
- Laboriopsithyrus** n. subgen.  
Frison, Tr. Amer. Ent. Soc. 53, 69, 1927.
- Labrorychus prismaticus**  
Baird, Ont. Ent. Soc. R. 59, 39, 1929.
- Lac insects**  
Wilson, Nat. Mag. 12, 292-295, Nov. '28.
- Laccobius** gen.  
Winters, Pan-Pac. Ent. 3, 50, 1926.
- Lacconotus pallidus**  
nVan Dyke, Brooklyn Ent. Soc. B. 23: 256-257, 1928.
- Laccotrephes** sp.  
Esaki, Brooklyn Ent. Soc. B. 21, 177-181, 1926.
- Lachnosterna**, *see* Phyllophaga



*Lachnus edulis*

iPalmer, Ann. Ent. Soc. Amer. 19, 314-317, 1926.

*Lachnus engelmanniensis, juniperensis*

niGillette & Palmer, Ann. Ent. Soc. Amer. 18, 526-530, 1925.

*Lachnus occidentalis* 308-311, *oregonensis* 311-314, *pseudotsugae* 301-304

iPalmer, Ann. Ent. Soc. Amer. 19, 1926.

*Lachnus sabinianus*

niSwain, Cal. Univ. Tech. B. Ent. 3; 1, 49, 1919.

*Lachnus schwarzii* 319-323, spp. 300-330

iPalmer, Ann. Ent. Soc. Amer. 19, 1926.

*Lachnus strobi* (White pine aphid)

Peirson, Me. For. Serv. B. 5, 98-99, '27.

*Lachnus taxifoliae*

iPalmer, Ann. Ent. Soc. Amer. 19, 304-307, 1926.

*Lachnus vanduzeei*

niSwain, Cal. Univ. Tech. B. Ent. 3; 1, 50, 1919.

*Lachnus vandykei*

iPalmer, Ann. Ent. Soc. Amer. 19, 317-319, 1926.

*Lactista oslari*

Hebard, Tr. Amer. Ent. Soc. 51, 277, 1925.

*Laelaps barbatus, braziliensis, californicus*

nEwing, Proc. Ent. Soc. Wash. 27, 2, 3, 5, 1925.

*Laelaps cancer*

Pearse, Carnegie Inst. Wash. Pub. 391, 229, 1929.

*Laelaps glasgowi*

nEwing, Proc. Ent. Soc. Wash. 27, 6, '25.  
ibStiles, Am. Vet. Med. Assoc. J. 74, 715-716, 1929.

*Laelaps hollisteri*

nEwing, Proc. Ent. Soc. Wash. 27, 2, 1925.

*Laelaps reithrodintis* 7, *robustipes* 4, spp.

—Key 1-7, *virginianus* 6, *wetmorei* 4.  
nEwing, Proc. Ent. Soc. Wash. 27, 1925.

*Laërtias philenor*—Massachusetts

Clark, Psyche 32, 297, 1925.

*Laetilia coccidivora*

Watson, Fla. R. f. 1924, 79R.

*Laetilia zamacrella*

nDyar, Ins. Insc. Mens. 13, 12, 1925.

*Laevicephalus cicatrix, orbiculus, subrutillus*; niDeLong & Slesman, Ann. Ent. Soc. Amer. 22, 102-104, 1929.*Lagoa crispata* (Flannel moth)

Beyer, Nation's Health 8, 411, 1926.  
iDelcurto, Halstead & Halstead, Tex.

Dept. Agr. B. 79, 97-98, 1925.

bGilmer, Can. Ent. 36, 231-234, 1925.

Gray, Ark. B. 203, 34-35, 1926.

iPickens, Pan-Pac. Ent. 6, 63-66, 1929.

*Lagoa immaculata*

nCassino, Lepidopterist 4, 91-92, 1928.

*Lagoa operculata*, see *Megalopyge opercularis* (Puss moth)*Lamellicornia*

biHayes, Ann. Ent. Soc. Amer. 21, 282-306, 1928.

*Laminipes simulans*

nbMarshall, Tr. Amer. Micr. Soc. 43, 244, 1924.

*Laminosioptes cysticola*

iSwenk & Mussehl, Neb. C. 37, 30, 1928.

*Lamnesia wawaseea*

niMarshall, Ind. Acad. Sci. Proc. 38, 315, 1929.

*Lampra alternata*

iPettit, Mich. R. 38, 222, 1925.

iPettit, Mich. Bd. Agr. R. 64, 221, 1926.

iPettit, Mich. Sp. B. 183, 9, 1929.

*Lampra fimbria*

McDunnough, Can. Ent. 59, 65, 1927.

*Lampra pulchrata*

nBlackmore, Can. Ent. 57, 205, 1925.

*Lampronia sublustris*

nBraun, Can. Ent. 57, 127, 1925.

*Lamprosema caradocalis*

nSchaus, Proc. Ent. Soc. Wash. 29, 185, 1927.

*Lamyra apicalis*

nCurran, Amer. Mus. Nov. 272, 6-7, 1927.

*Laniifera cyclades*

Barnes & Benjamin, Pan-Pac. Ent. 2, 15, 1925.

*Laphria milvina*

niBromley, Can. Ent. 61, 160-161, 1929.

*Laphygma exigua* (Beet armyworm)\*

biCampbell & Duran, Cal. Dept. Agr. Mo. B. 18, 267-275, 1929.

iCrumb, Brklyn Ent. Soc. B. 22, 50, '27.

Essig, Pan-Pac. Ent. 2, 45-46, 1925.

iHawley, Utah C. 54, 15-17, 1925.

*Laphygma frugiperda* (Fall armyworm)\*

Barre, S. C. R. 42; 68-69, 1929.

iDrake & Decker, Iowa C. 103, 11-12, '27.

- Fox, U. S. Bur. Ed. B. 1925; 15, 16.  
Hinds, La. Ext. C. 88, 1926, 4p.  
Hinds, Prog. Farm. 42, 686, 1927.  
Ingram, U. S. F. B. 1543, 13, 1927.  
Langston, Miss. St. Plt. Bd. Quar. B. 8, 1, 7-8, 1928.  
libLuginbill, USDA Tech. B. 34, 1928, 92p.  
Lyle, Miss. St. Pl. Bd. Q. B. 7; 1, 1-3, 1927; B. 7: 2, 1-4, 1927.  
Marcovitch, Tenn. R. 40, 33, 1928.  
Sherman, S. C. Clemson Col. Wkly. News Notes 14: 50, 1926.  
Vickery, U. S. D. A. Tech. B. 138, 63p.  
Watson, Fla. Dept. Agr. Quar. B. 39: 3; 91-92, 1929.  
Wright, Fla. Grower, 37; 9, 33, 1929.  
*Laphystia canadensis*, *confusa*  
nCurran, Can. Ent. 59, 86-87, 1927.  
\**Lappet moth*, *see* *Epicnaptera americana*  
*Lara* genus 328-331, *avara* 330-331, *gehringi* 329-330; niDarlington, Psyche, 36, 1929.  
\**Larch case bearer*, *see* *Haploptilia laticella*  
*Larch insects*  
Peirson, Me. For. Serv. B. 5, 79-80, 1927.  
*Larch lappet moth*, *see* *Tolyte laricis*.  
\**Larch sawfly*, *see* *Nematus erichsoni*  
*Larch tip moth*, *see* *Argyresthia laticella*  
\**Larder beetle*, *see* *Dermestes lardarius*  
*Large aspen tortrix*, *see* *Cacoecia conflictana*  
*Large body hen louse*, *see* *Menopon biseriatum*  
*Large cabbage butterfly*, *see* *Pontiamonuste*  
\**Large chestnut weevil*, *see* *Balaninus proboscideus*  
*Large chicken louse*, *see* *Goniocotes gigas*  
*Larger corn stalk borer*, *see* *Diatraea zeacolella*  
*Large western pine engraver*, *see* *Ips emarginatus*  
*Large willow sawfly*, *see* *Cimbex americana*  
*Larger canna leaf roller*, *see* *Calpodes ethlius*  
*Larger cotton cutworm*, *see* *Prodenia dolichos*  
*Larger elm leaf beetle*, *see* *Monocesta coryli*  
*Larger grain borer*, *see* *Dinoderus truncatus*  
\**Larger Mexican pine beetle*, *see* *Dendroctonus parallelcolis*.  
*Larger sand cricket*, *see* *Tridactylus apicalis*  
*Larger sod webworm*, *see* *Crambus trisectus*  
*Largidea pudica*  
nVan Duzee, Proc. Cal. Acad. Sci. 14, ser. 4, 397, 1925.  
*Largulus*—gen. nov., *parallelus*  
nHussey, Brooklyn Ent. Soc. B, 22, 228-229, 1927.  
*Laria*, *see* *Acanthoscelides* & *Bruchus*  
*Larkspur leaf miner*, *see* *Phytomyza delphiniae*  
*Larva migrans*  
iHaley, J. Med. Assoc. Ga. 15, 428-429, 1926.  
iPomeroy, Canad. Med. Assoc. J. 15, 1249, 1925.  
Todd, Mil. Surg. 62, 642, 1928.  
*Larvicides*, *see* *Insecticides*—*Larvicides*  
*Lasionycta benjamini*  
Hill, So. Cal. Acad. Sci. B. 26, 6-7, 1927.  
*Lasia colei*, *rostrata*  
niAldrich, P. U. S. N. M. 72; 9, 1-2, 1928.  
*Lasiophilus comitalis* 34, *hirtellus* 33-34, *mirificus* 35, *socialis* 36; nDrake & Harris, Proc. Biol. Soc. Wash. 39, '26.  
*Lasiocnemus pilipes*  
nCurran, Amer. Mus. Nov. 272, 2, 1927.  
*Lasioderma serricorne* (*Cigarette beetle*)\*  
lBack & Cotton, U. S. F. B. 1260; rev. Dec. 1925, 37.  
Back & Cotton, Furniture Manufacturer, Dec. 1927, 3-7.  
Doane, J. Ec. Ent. 18, 689-696, 1925.  
iGibson & Twinn, Can. Dept. Agr. B. 112, 36, 47-48, 1929.  
Goldberg, Tobacco, 89; 6, 34, 39, 1929.  
Guyton, Pa. Dept. Agr. Gen. B. 432, 11-12, 1927.  
Lieber, Ind. Dept. Conserv. R. 7, 44-45, 1925.  
Marcovitch, J. Ec. Ent. 22, 602, 1929.  
*Lasionycta benjamini*  
nHill, S. Cal. Acad. Sci. B. 26: 1, 6, 1927.  
*Lasiophiticus pyrastris*  
Kessel, Pan-Pac. Ent. 2, 159, 1926.

- Lasioptera quercirami*  
nFelt, J. Ent. & Zool. 18, 80-81, 1926.
- Lasioptera vitis* (Grape tomato gall)  
iBritton & Zappe, Conn. B. 292, 158, 1927.
- Lasius flavis* (yellow ant)  
Pijoan, J. Ent. & Zool. 20, 41-42, 1928.
- Lasius interjectus*—Kansas  
bSmith, Kans. Ent. Soc. J. 1: 2, 14-18, 1928.
- Lasius mermithogynes*  
Wheeler, J. Expt. Zool. 50, 181, 1928.
- Lasius niger* (Corn field ant)  
Buckell, Proc. Ent. Soc. B. C. 24, 31, '27.  
Essig, Insects of Western No. Amer. 1926, 866.  
Spittall, Proc. Acad. Ent. Soc. 10, 60, '25.
- Laspeyresia caryana* (Hickory shuck worm)\*  
Bratley, Nat. Pecan Gr. Assoc. Proc. 24, 68-69, 1925.  
Harned, Miss. R. 40, 27, 1928.  
iLeiby, N. C. Dept. Agr. B. Feb. 1925, 42-44.  
Walker, Fla. Gr. 35: 18, 22-23, 1927.  
Walker, Fla. St. Hort. Soc. Proc. 41, 80-85, 1928.  
Walker, Ga-Fla. Pecan Grow. Assoc. Proc. 22, 26-31, 1928.  
Watson, Fla. R. 1927, 47 R-48R, 1927.
- iWoodard, Tex. Dept. Agr. B. 81, 168, 1925; B. 95, 140, 1929.
- Laspeyresia flexiloqua* 59, *grandicula* 54-55, *imitativa* 34-35, *ingens* 63, *in-grata* 50-51  
niHeinrich, U. S. Nat. Mus. B. 132, 1926.
- Laspeyresia inopinata*  
niHeinrich, Proc. Ent. Soc. Wash. 30, 91-92, 1928.
- Laspeyresia inopiosa* 46-47, *lautiuscula* 58-59, *libertina* 29, *membrosa* 49-50, *miscitata* 64-65  
niHeinrich, U. S. Nat. Mus. B. 132, 1926.
- †*Laspeyresia molesta* (Oriental fruit moth)  
iArmstrong, Ont. Ent. Soc. R. 59, 65-72, 1929.  
Barre, S.C.R. 42, 64, 1929.  
Bentley, Tenn. Dept. Agr. Bien. R. 1923-24, 77, 1924.  
iBerly, S. C. C. 32, 23, 1924.  
Brannon, N. C. Ext. C. 153, 10-11, 1925.  
Britton, Mass. Fr. Grow. Assoc. R. 31, 131, 1925.
- iBritton & Zappe, Conn. B. 292, 132, 1927.  
Burrows, Nova Scotia Fr. Grow. R. 62, 45, 1925.  
Caesar & Ross, Ont. Ent. Soc. R. 58, 22-23, 1928.  
Cagle, Va. St. Hort. Soc. Proc. 32, 100-102, 1927.  
Cagle, Va. St. Hort. Soc. Proc. 33, 132-136, 1929.  
Chandler, J. Ec. Ent. 22, 268, 1929.  
Cory, Md. Agr. Soc. R. 8, 164, 1924.  
Cory, Md. Hort. Soc. R. 27, 174, 1924.  
Cory, J. Ec. Ent. 18, 199, 1925.  
Cory, Penin. Hort. Soc. Tr. 38, 59-62, 1925.  
Cory, Penin. Hort. Soc. Tr. f. 1926, 36-37.  
Cory, Md. St. Bd. Agr. B. 16: 3, 14-15, 1927.  
Cory, Md. Agr. Soc. Farm. Bur. Fed. R. 11, 185-189, 1927.  
Cory, Md. St. Hort. Soc. R. 29, 185-186, 1927.  
Cory, Penin. Hort. Soc. Tr. f. 1928, 82-83.  
Cory, Penin. Hort. Soc. Tr. f. 1929, 32-33.  
Cory & McConnell, J. Ec. Ent. 20, 190-192, 1927.  
Crosby, et al, N. Y. C. B. 498, 66, 1929.
- liDaniel, N. Y. Geneva C. 106, 1-6, 1928.
- iDaniel, N. Y. St. Hort. Soc. Proc. 74, 39-45, 1929.  
Davis, Ind. Acad. Sci. Proc. 3, 308, 1929.  
Del Curto, Tex. Com. Agr. R. f. 1927-28, 42.  
iDozier, Del. B. 158, 24, 1928.  
iDriggers, J. N. Y. Ent. Soc. 36, 435-437, 1928.  
Driggers, N. J. R. 50, 151-167, 1929.  
Eyer, J. Ec. Ent. 20, 253-260, 1927.  
Felt, J. Ec. Ent. 20, 66, 1927.  
Felt, N. Y. St. Hort. Soc. P. 73, 18, '28.  
bFleury, Cal. Dept. Agr. Sp. Pub. 72, 54-62, 1927.  
Flint, Ill. Hort. Soc. Tr. 59, 483, 1926.  
Flint, Ill. Hort. Soc. Tr. 61, 106-108, 1927; 62, 122-126, 1929; 62, 454-456, 1929; 63, 139-140, 1929.  
iFlint & Chandler, Ill. C. 338, 1929, 7p.  
Frost, Penn. St. B. 196, 32, 1925.  
iFrost, Ann. Ent. Soc. Amer. 19, 198-200, 1926.  
Frost, Pa. St. Col. B. 204, 35-36, 1926.  
Frost, J. Ec. Ent. 19, 441-450, 1926.

- Frost, Penn. St. Hort. Soc. Proc. f. 1926, 37-38.
- iFrost, J. Ec. Ent. 20, 167-174, 1927.
- Frost, Pa. St. Hort. Assoc. News 4; 2, 102-106, 1927.
- Frost, J. Ec. Ent. 21, 339-348, 1928.
- Frost, Pa. B. 230, 40-41, 1928.
- iFrost, J. Ec. Ent. 22, 101-108, 1929.
- Frost, Pa. B. 243, 29, 1929.
- Garman, Conn. Bul. Immed. Inf. 41, 1924, 2p.
- iGarman, Conn. B. 265, 299-303, 1925.
- Garman, Conn. Pomol. Soc. Proc. 34, 57-60, 1925.
- Garman, Conn. B. 275, 280-286, 1926.
- Garman, Conn. Pomol. Soc. Proc. 35, 44-46, 1926.
- Garman, Conn. B. 285, 237-239, 1927.
- Garman, Conn. Pomol. Soc. Proc. 36, 46-50, 1927.
- iGarman, Conn. B. 294, 263-271, 1928.
- iGarman, Conn. B. 305, 731-734, 1929.
- Gentner, Ann. R. Mich. St. Hort. Soc. 56, 194-196, 1926.
- Gibson, Ont. Ent. Soc. R. 56, 22-24, 1926.
- iGibson & Twinn, Can. Dept. Agr. B. 112, 57, 1929.
- iGood, Ala. R. 38, 24, 1927.
- iGossard, Ohio Mo. B. 10, 77-80, 1925.
- Guyton & Champlain, J. Ec. Ent. 18, 190, 1925.
- iGuyton & Champlain, Pa. Dept. Agr. B. 405, 1925., 7p.
- Hadley, Penn. St. Hort. Assoc. Proc. 65, 6-8, 1924.
- Hadley, Penn. St. Hort. Assoc. Proc. f. 1925, 56-59, 1926.
- Hadley, J. Ec. Ent. 20, 707, 1927.
- Haeussler, Penin. Hort. Soc. Tr. f. 1929, 80-86.
- Hartzell, J. Ec. Ent. 19, 868, 1926.
- Headlee, N. J. St. Hort. Soc. Proc. f. 1925, 92-94.
- iHeadlee, Penin. Hort. Soc. Tr. f. 1925, 52-56.
- Headlee, N. J. St. Hort. Soc. Proc. 50, 92-94, 1925.
- Headlee, N. J. R. 46, 372, 1925.
- Headlee, J. Ec. Ent. 19, 440-441, 1926.
- Headlee, N. J. R. 49, 145-155, 1928.
- iHedrick, N. Y. (Geneva) R. 48, 17, 1929.
- Herrick, N. Y. St. Hort. Soc. Proc. 74, 11-13, 1929.
- Hodgkiss, Penn. St. Hort. Assoc. Proc. f. 1925, 59-66, 1926.
- Hodgkiss, Penn. St. Hort. Assoc. Proc. f. 1925, 39.
- Howard, U. S. D. A. Ent. R. f. 1925, 1-2.
- Howard, U. S. D. A. Ent. R. f. 1927, 2.
- Jacobsen, Cal. Agr. B. 14, 157-158, 1926.
- Jacobsen, Cal. Dept. Agr. Mo. B. 17; 667, 671, 1928.
- Lieber, Ind. Dept. Conserv. R. 7, 41, 1925.
- Lipman, N. J. R. 47, 15-16, 1927.
- ibLipp, J. Ec. Ent. 22, 116-126, 1929.
- McConnell, Md. B. 298, 179-180, 1928.
- Marlatt, USDA FHB SRA 83-53-54, '25.
- Mill, J. Ec. Ent. 19, 870-871, 1926.
- Newcomer, B. C. Fr. Grow. Assoc. Ann. R. 36, 42-47, 52, 1926.
- Peterson, Ill. Hort. Soc. Tr. 58, 183-188, 1925.
- Peterson, J. Ec. Ent. 18, 181, 1925.
- Peterson, N. J. R. f. 1924, 291-294, 1925.
- Peterson, N. J. St. Hort. Soc. Proc. f. 1925, 85-87.
- Peterson, Conn. Pom. Soc. Proc. 35, 47-51, 1926.
- iPeterson, J. Ec. Ent. 19, 429-439, 1926.
- Peterson, N. J. R. 46, 379-406, 1926.
- Peterson, N. J. Hort. Soc. Proc. 1926, 83-86.
- Peterson, Ky. Hort. Soc. Tr. f. 1929, 36-49.
- iPeterson, J. Ec. Ent. 20, 174-189, 1927.
- Peterson, J. Agr. Res. 37, 399-417, 1928.
- Peterson, J. Ec. Ent. 22, 108-115, 1929.
- Peterson, Ont. Ent. Soc. R. 59, 80-85, 1929.
- Peterson, Mich. St. Hort. Soc. R. 59, 48-51, 1929.
- iPeterson & Haeussler, U. S. D. A. Dept. C. 395, 1926, 28p.
- iPeterson & Stearns, N. J. C. 175, 1925, 11p.
- iPettit, Mich. Ent. R. f. 1927, 4-5.
- Pettit, Mich. St. Bd. Agr. R. 66, 340-341, 1928.
- Pettit, Mich. St. Hort. Assoc. R. 58, 74-77, 1928.
- Pettit, Mich. Ext. B. 75, 1929, 3p.
- iPorter, Ind. C. 122, 1925, 8p.

†*Laspeyresia molesta* *Cont'd*

- Porter, Ind. Hort. Soc. Tr. 64, 54-55, '25.  
 Reed, Conn. Pomol. Soc. Proc. 34, 60-63, 1925.  
 Ross, Ont. Fr. Grow. Assoc. R. 57, 81-83, 1925; R. 58, 79-80, 1926; R. 60, 36-39, 1929.  
 iRoss, Can. Dept. Agr. Ent. Br. C. 57, 1927, 4p.  
 Ross & Caesar, Ont. Ent. Soc. R. 58, 17-18, 1928.  
 Ross & Caesar, Ont. Ent. Soc. R. 59, 19-20, 1929.  
 Russell, U. S. D. A. C. 31, 1928, 8p.  
 iSanders, Md. Inf. Cd. 21, 1929.  
 Schoene, Va. St. Crop. Pest. Com., Quar. B. 7: 4, 12-13, 1926.  
 Schoene, Va. Poly. R. f. 1919-27, 50, 1928.  
 Siegler & Brown, J. Ec. Ent. 20, 428-429, 1927.  
 Simpson, Ill. St. Hort. Soc. Tr. 63, 470-478, 1929.  
 Slate, Conn. St. B. 298, 125-126, 1928.  
 Snapp, Ga. St. Hort. Soc. Proc. 50, 56, 1926.  
 Snapp, Ga. P. B. 296, 1929, 2p.  
 Snapp, J. Ec. Ent. 20, 691-695, 1927.  
 iSnapp, U. S. F. B. 1557, 24-27, 1928.  
 Snapp, Tenn. St. Hort. Soc. Proc. 24, 73-74, 1929.  
 iSnapp & Swingle, U. S. D. A. Tech. B. 152, 1929, 16p.  
 Stear, Penn. Sta. Hort. Soc. Proc. f. 1926, 38-39.  
 iStear, Penn. Dept. Agr. Gen. B. 477, 1929, 13p.  
 Stearns, J. Ec. Ent. 18, 191-199, 1925.  
 iStearns, N. J. St. Hort. Soc. Proc. 51, 166-175, 1925.  
 Stearns, N. J. R. 46, 386-396, 1926.  
 Stearns, N. J. Hort. Soc. Tr. f. 1926, 71-82.  
 Stearns, Tr. Ind. Hort. Soc. 67, 108-117, 1927.  
 Stearns, J. Ec. Ent. 20, 185-190, 1927.  
 Stearns, N. J. C. 208, 1927, 15p.  
 iStearns, N. J. R. 47, 184-195, 1927.  
 Stearns, N. J. Hort. Soc. Proc. f. 1926, 71-83, 1927.  
 Stearns, Ohio St. Hort. Soc. Proc. 60, 22-35, 1927.  
 iStearns, Ind. Hort. Soc. Tr. 67, 108-117, 1928.  
 iStearns, Ohio Bi-Mo. B. 13, 35-43, 1928.  
 Stearns, Ohio Hort. Soc. Proc. 61, 84-92, 1928.  
 Stearns, Ohio St. Hort. Soc. Proc. 62, 15-28, 1929.  
 Stearns, Ohio St. Hort. Soc. Proc. 63, 84-89, 1928.  
 Stearns, Tr. Ill. St. Hort. Soc. 62, 111-122, 1929.  
 Stearns, Penin. Hort. Soc. Tr. f. 1929, 20-27.  
 iStearns & Neiswander, J. Ec. Ent. 22, 657-660, 1929.  
 iStearns & Neiswander, Ohio B. 431, 77-79, 1929.  
 iStearns & Neiswander, Tenn. St. Hort. Soc. & Beekeepers' Assoc. Proc. 24, 87-89, 1929.  
 iStearns & Peterson, N. J. B. 455, 1929, 48p.  
 bSwingle, Ann. Ent. Soc. Amer. 21: 469-475, 1928.  
 Trimble, Penn. Crop Protec. C. 4; 12, 3, 1925.  
 Williams, Ga. Ent. B. 68, 4-5, 1925.  
 Williams, Ohio B. 417, 45-46, 1928.  
 Worthley, Pa. St. Hort. Assoc. News 6; 1, 85-87, 1929.
- Laspeyresia molesta*—Losses**  
 Brehm, Prog. Farm. 44, 1101K, 1929.  
 Brunson, S. C. Wkly. News Notes, 18; 10, 1929, 1p.  
 Lewis, N. J. Hort. Soc. Proc. f. 1926, 68-70.
- Laspeyresia molesta*—Parasites**  
 Daniel, Amer. Agr. 124, 361, 1929.  
 Daniel, J. Ec. Ent. 22, 801-805, 1929.  
 Driggers, J. N. Y. Ent. Soc. 37, 169-170, 1929.  
 iSmith, Ont. Ent. Soc. R. 59, 72-80, 1929.  
 bStearns, N. J. B. 460, 3-4, 1928.
- Laspeyresia molesta*—Quarantines**  
 Davis, Hoosier Hort. 8; 3, 43-45, 1926.  
 Fleury, Cal. Cult. 66, 310-311, 1926.  
 Hecke, Cal. Cult. 65, 145, 1925.  
 Hecke, Cal. Cult. 66, 39, 1926.  
 Park, Oreg. St. Bd. Hort. Bien. R. 19, 62-63, 1927.  
 — Cal. Agr. Mo. B. 16, 499, 1927.  
 — Cal. Fruit News, 72; 1930, 13, 1925.

- Cal. Fruit News 73; 1957, 13, 1926.  
 — Can. Dept. Agr. Dest. Ins. & Pest.  
 Act. Reg. Foreign, 1st rev. 14, 1925, 1p.
- Laspeyresia nigricana** (Pea moth)\*  
 iBrittain, N. S. Dept. Nat. Resource B.  
 12, 87-88, 1927.  
 iGibson & Twinn, Can. Dept. Agr. B.  
 112, 61, 1929.
- Laspeyresia obnisa**  
 niHeinrich, U. S. N. M. B. 132, 47, 1926.
- Laspeyresia packardii**  
 Bottimer, J. Agr. Res. 33, 815, 1926.  
 Downes, Proc. Ent. Soc. B. C. 25; 16,  
 1928.  
 iiDownes, B. C. Ent. Soc. Proc. 26, 39-43,  
 1929.
- Laspeyresia palmetum**  
 niHeinrich, Proc. Ent. Soc. Wash. 30, 109,  
 1928.
- Laspeyresia pomonella**, *see* **Carpocapsa pomonella**
- Laspeyresia prunivora** (Lesser apple worm)\*  
 Downes, Proc. Ent. Soc. B. C. 25; 16, '28.  
 Fulton, Iowa St. Hort. Soc. Tr. 59, 139,  
 1925.
- Laspeyresia spp.—Key**  
 Heinrich, U. S. N. M. B. 132, 27-28, 1926.  
 Heinrich, U. S. N. M. B. 132, 42-44, 1926.
- Laspeyresia splendana**  
 Jacobsen, Cal. Dept. Agr. Mo. B. 17,  
 665, 1928.  
 Marlatt, USDA FHB SRA 93, 142, '27.  
 — J. Ec. Ent. 21, 246, 1928.  
 — Sci. 63, 1639, xiv, 1926.
- Laspeyresiinae—North America**  
 iHeinrich, U. S. N. M. B. 132, 1926, 216p.
- Latalus—n. gen.**  
 niDeLong & Slesman, Ann. Ent. Soc.  
 Amer. 22, 87-88, 1929.
- Late strawberry slug**, *see* **Empria maculata**
- Latheticus oryzae**  
 iBack & Cotton, U. S. F. B. 1260; rev.  
 Dec. 1925, 35-36.
- Lathrobium sewardi, sollicitum**  
 nFall, Pan-Pac. Ent. 2, 147-149, 1926.
- Latrodectus hasseltii**  
 ibSivickis & Filoteo, Tr. Amer. Micro.  
 Soc. 47, 11-27, 1928.
- Latrodectus mactans** (Black widow)  
 iBaerg, Nat. Mag. 14, 152-154, 1929.
- Bogen, J. Am. Med. Assoc. 86: 25, 1894-  
 1896, 1926.
- iBogen, Arch. Internat. Med. 38: 5, 623-  
 632, 1926.
- Bogen, & Berman, Cal. & West. Med.  
 26, 339-341, 1927.
- iBrown, Nat. Mag. 11, 156, Mar. 1928.
- iDarnell, Flower Grow. 16, 254, 1929.
- Ewing, Am. J. Pharm. 100, 537-539, '28.
- Ewing, Amer. J. Trop. Med. 8, 51-57, '28.
- Ewing, U. S. Naval Med. B. 26, 699, '28.
- Hermis, J. Ec. Ent. 19, 692-694, 1926.
- Illingworth, Pineapple News, 3; 179-  
 180, 1929.
- iMoore, Nat. Health, 9; 7, 45-46, 1927.
- Palmer, Internat. J. Med. & Surg. 42,  
 570-573, 1929.
- Laurel leaf beetle**, *see* **Galerucella kalmiae**
- Lauxania pacifica**  
 iCole, J. Ent. & Zool. 17, 57-58, 1925.
- Lavrushinia**, n. gen., *elegantula*  
 Cockerell, PUSNM 68; 5, 10-11, 1925.
- Laxenecera chapini** 9-10, *dimidiata* 7-8,  
*funditor* 8-9, *langi* 10  
 nCurran, Amer. Mus. Nov. 272, 1927.
- Laximasicera—n. gen., sexualis**  
 nCurran, Can. Ent. 59, 14, 1927.
- Lead boring insects**  
 Snyder, Nature Mag. 8, 277-280, 1926.
- Lead cable-borer**, *see* **Scobicia declivis**.
- \*Leaf crumpler**, *see* **Mineola indigenella**.
- Leaf cutting ant**, *see* **Atta** (Moellerius)  
*versicolor*
- Leaf-cutting bee**, *see* **Megachile centrun-**  
*cularis*
- Leaf-feeding insects**  
 iCollingwood, Amer. Forests, 35, 649-  
 652, 1929.
- bEarle, Facts About Sugar 22, 1013, 1927.
- \*Leaf-footed bug**; *see* **Leptoglossus phyllo-**  
*pus*
- Leaf miners**  
 Bremer, Facts about Sugar 20, 1120,  
 1925.  
 Frost, Ent. News 36, 299-305, 1925.  
 Gentner, Mich. Hort. Soc. R. 54, 194,  
 1925.  
 Jones, Pan-Pacific Ent. 3, 135, 1927.
- ibNeedham, Frost & Tothill, Leaf-mining  
 insects, 1928, 351p.
- Peirson, Me. For. Serv. B. 5, 43, 1927.

- Leaf mining linden beetle, *see* *Chalepus rubra*.**
- Leaf rollers**  
 Frost, Pa. St. Col. B. 204, 36, 1926.  
 iVincent, Amer. Fr. Grow. Mag. 47; 2, 5, 1927.  
 Whuney, Western Home, Fruit & Garden 8; 5-6, 17, 1926.
- Leafhoppers**  
 Beckwith & Hutton, J. N. Y. Ent. Soc. 37, 425-427, 1929.  
 ibCarsner, Phytopath. 15, 745-757, 1925.  
 Carter & Knowlton, Facts about Sugar 21, 716, 1926.  
 Cory, Md. St. Hort. Soc. R. 28, 179, 1926.  
 biGranovsky, Phytopathology 16, 413-422, 1926.  
 iHollowell, Monteith & Flint, Phytopathology 17, 399-404, 1927.  
 Lawson, Ann. Ent. Soc. Amer. 19, 73-74, 1926.  
 Lawson, Kans. Ent. Soc. J. 2, 39-47, '29.  
 Lieber, Ind. Dept. Conserv. R. 10, 71, 1928.  
 Metcalf, N. C. R. 48, 29, 1926.  
 Murphy, Garden Club Amer. B. 5; 4, 94, 1929.  
 iOsborn, Ohio Biol. Surv. B. 14, 199-374, 1928.  
 Osborn, J. Ec. Ent. 22, 209-213, 1929.  
 Osborn, P. R. Dept. Agr. Jr. 13, 88-89, 1929.  
 ibPoos, J. Ec. Ent. 22, 146-153, 1929.  
 Stewart, Better Crops with Plant Food, 13: 2; 59, 1929.
- Leafhoppers and alfalfa yellows**  
 iRussell, Morrison & Ebling, Wis. B. 388, 73-75, 1926.
- Leafhoppers and false blossom**  
 Stevens, Amer. Cranb. Grow. Assoc. Proc. 57, 23-26, 1926.
- Leather beetle, *see* *Dermestes vulpinus***
- Lebia lecta***  
 Blathcley, Can. Ent. 57, 161, 1925.
- Lecaniobius cockerellii***  
 iSmith & Compere, Cal. Univ. Pub. Ent. 4, 297-301, 1928.
- Lecaniodiaspis*—gen. 24, *acaciae* 24-26, *atherospermae* 26-28, *eucalypti* 28-30, *minosae* 30-31, *prosopidis* 31-33**  
 iMorrison & Morrison, P. U. S. N. M. 71: 17, 1927.
- Lecanium capreae***  
 iGlendenning, Proc. Ent. Soc. B. C. 22, 21-26, 1925.
- Lecanium cerasorum***  
 Jacobsen, Cal. Dept. Agr. Mo. B. 15; 131, 1926.
- Lecanium corni* (European fruit lecanium)**  
 iBritton & Zappe, Conn. B. 292, 123, '27.  
 Crosby, et al, N. Y. C. B. 498, 67, 1929.  
 Essig, Insects of Western No. Amer. 1926, 293-294.  
 iGillette & Langford, Colo. Ent. C. 46, 12-13, 1925.  
 Thatcher, N. Y. Geneva R. 46, 47, 1927.  
 Webster, West. Home, Fruit & Garden 8: 7, 16, 1926.
- Lecanium coryli***  
 ide Gryse, Can. Dept. Agr. Ent. Br. Pam. 47, n.s. rev. ed., 22, 1925.  
 iFerris, Can. Ent. 57, 232-234, 1925.  
 Jacobsen, Cal. Dept. Agr. Sp. Pub. 85, 20, 1928.  
 Kincaid, Cal. Dept. Agr. Sp. Pub. 73, 43, 1927.  
 Morrison, J. Wash. Acad. Sci. 18, 382, 1928.
- Lecanium fletcheri***  
 Britton, Conn. B. 294, 296, 1928.
- Lecanium hesperidum***  
 Morrill, Cal. Dept. Agr. Sp. Pub. 73, 71, 1927.
- Lecanium nigrofasciatum* (Terrapin scale)\***  
 Bailey, Comm. Agr. Vt. Bien. R. 13, 65, 1926.  
 iBritton & Zappe, Conn. B. 292, 152-153, 1927.  
 Gillette & Langford, Colo. Ent. C. 46, 11-12, 1925.  
 iSnapp, U. S. F. B. 1557, 34-35, 1928.  
 Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 50, 1926.  
 iTrimble, Pa. Dept. Agr. B. 8; 2, 7, 1925.  
 Trimble, Pa. Dept. Agr. Gen. B. 480, 7, 1929.
- Lecanium* (*Toumeyella*) *numismaticum***  
 Allison & Orr, J. of Forestry, 27, 821-824, 1929.  
 iMcDaniel, Mich. Ext. B. 76: 10-11, 1929.
- Lecanium prunastri* (Globose scale)\***  
 iTrimble, Pa. Dept. Agr. B. 8; 2, 7, '25.  
 Trimble, Pa. Dept. Agr. Gen. B. 480, 7, 1929.

**Lecanium—Sex determination**

iThomsen, Internat. Cong. Ent. 4, Tr. 2,  
18-24, 1929.

**Lecanium sp.**

Frank, Western Home, Fruit & Garden  
8; 5-6, 14, 1926.  
Sudds, Rural N. Y. 87, 1005, 1928.

**Lecon sp.**

bPlank, Ann. Ent. Soc. Amer. 22, 639, '29.

**Leconte's sawfly, *see* Neodiprion lecontei**

Leeuwenhoek, Anthony van—Entomology  
bWeiss and Zeigler, J. N. Y. Ent. Soc. 36,  
99-104, 1928.

**Legislation—Crop pest law**

Gillette, Colo. St. Ent. C. 54, 16, 1929.  
Thornburg, Iowa Yrbk. Agr. 28, 15-16,  
1928.  
— Cal. Agr. Mo. B. 16, 302-304, 1927.  
— Mont. B. 200, 25-26, 1927.

**Legislation—Insecticide**

Dade, Fla. Grow 32; 16, 7, 1925.  
Stafford, J. Ec. Ent. 19, 60-62, 1926.  
Yothers, Fla. Grow. 32; 23, 9, 1925.  
— Cit. Indus. 6; 11, 11, 1925.  
USDA Insecticide SRA 52, 1193-1227,  
1925.

**Legislation—Inspection**

Delcurto, et al, Tex. Dept. Agr. B. 79,  
127, 1925.  
Lieber, Ind. Dept. Conserv. R. 10, 53-  
55, 1928.  
Ruggles, Minn. Hort. 53, 300-301, 1927.  
Scholl, Tex. Dept. Agr. B. 87, 40-60, 1927  
— Colo. Ent. C. 50, 1-9, 1926.  
Ga. Ent. B. 66, 6-9, 1924.  
Ind. Dept. Conserv. Pub. 39, 1924, 22p.

**Legislation—Quarantine**

Hecke, Cal. Agr. Mo. B. 16, 270-276,  
1927.  
McLaine, J. Ec. Ent. 22, 449-453, 1929.  
Marlatt, J. Ec. Ent. 20, 447-449, 1927.  
Symons, Md. Ext. C. 71, 1929, 6p.  
— Ark. St. Pl. Bd. C. 14, 1925.  
— Canad. Laws etc. Regulations un-  
der destructive insects & pest act.  
1928, 29p.

**Legumes—Insects**

iMetcalf & Flint, Destructive & Useful  
Insects, 1928, 380-408.

**Leia nigricornis**

niVan Duzee, Cal. Acad. Sci. Proc. 17: 2,  
46, 1928.

**Leioididae (Genera & sub-genera)**

Hatch, J. N. Y. Ent. Soc. 37, 1-6, 1929.

**Leiophron punctatus**

nBrues, Proc. Amer. Acad. Arts & Sci. 61,  
278-279, 1926.

**Leiopleura boliviana, gorai**

nFisher, P. U. S. N. M. 66: 31, 39-41, 1929.

**Leiopus atrovittatus**

nFisher, Amer. Mus. Nov. 174, 9-11, '25.

**Leiopus cubanus**

nFisher, PUSNM 68: 22, 26-27, 1926.

**Leiopus laticollis, variabilis**

nFisher, Amer. Mus. Nov. 174, 11-13, '25.

**Leiopus variegatus**

Champlain, Kirk & Knull, Ent. News  
36, 140, 1925.

**Leioscyta beebei**

niHaviland-Brindley, Zoologica, N. Y. 6,  
239, 1925.

**Leioscyta bituberculata** 38, **fasciapennis** 39,  
**minima** 38-39, **nigra** 38, **pallipes** 39,  
**rufidorsa** 37-38

nGoding, J. N. Y. Ent. Soc. 36, 1928.

**Leioscyta spiralis**

niHaviland-Brindley, Zoologica, N. Y. 6,  
240, 1925.

**Leioscyta trinotata**

nGoding, J. N. Y. Ent. Soc. 37, 167-168,  
1929.

**Leis sp.**

iThompson, Fla. Ent. 10, 41-46, 1926.  
iWatson, Fla. B. 183, 366-367, 1926.

**Lejops, gen.** 254-255, **bilinearis** 267-270,  
**borealis** 272-273, **chrysostomus** 261-  
263, **distinctus** 260-261, **lunulatus**  
263-267; iCurran & Fluke, Wis. Acad.  
Sci. Tr. 22, 1926

**Lejops nasutus**

nCurran, Amer. Mus. Nov. 340, 12-13,  
1929.

**Lejops perfidious** 271-272, **relictus** 256-  
259, **spp.—key** 255-256, **stipatus** 274-  
276; iCurran & Fluke, Wis. Acad. Sci.  
Tr. 22, 1926.

**Lema nigriventris**

nFall, Brklyn. Ent. Soc. B. 23: 238, 1928.

**Lema palustris**

Frost, Psyche 36, 215, 1929.

**Lema spp.—Key**

Brisley, Pan-Pac. Ent. 4, 117-118, 1928.



- Lema trilineata* (Three-lined potato beetle)\*  
 Brisley, Trans. Amer. Ent. Soc. 51, 167, '25.  
 iBrisley, Pan-Pacific Ent. 4, 118-119, 1928.
- Lemmeria* nom. nov.  
 Barnes & Benjamin, Pan-Pacific Ent. 3, 69-70, 1926.
- Lemon silver mite & orange rust mite, *see* *Eriophyes oleivorus*
- Lemonias harrisi*—Flushing, L. I.  
 Bell, Brooklyn Ent. Soc. B. 21, 203, 1926.
- Leng's Catalogue of Coleoptera Supp.  
 Blatchley, Brklyn. Ent. Soc. B. 23, 47-49, 1928.
- Leocomia balloui* 98, *collina* 120-122, *fulva* 100-101, *grisea* 97-98, *maestralis* 99, *nagua* 98-99, *pileae* 100  
 nMetcalf, Psyche 32, 1925.
- Leonidia anthophorae*  
 in Mickel, Ent. News 39, 38-41, 1928.
- Leonidia*—Key to species  
 Mickel, Ent. News 39, 41, 1928.
- \*Leopard moth, *see* *Zeuzera pyrina*.
- Lepasta branda*  
 nSchaus, PUSNM 73; 19, 11, 1928.
- Lepidiotia frenchi*  
 Burns, Sugar 30, 368, 1929.  
 Swezey, Internat. Soc. of Sugar Cane Technol. Proc. 1, 14, 1924.
- Lepidocampa zetekei*  
 bFolsom, P. U. S. N. M. 72; 6, 2-4, 1927.
- Lepidocyrtus nigrosetosus*  
 nibFolsom, P. U. S. N. M. 72; 6, 9, 1928.
- Lepidocyrtus summersi*  
 nibFolsom, P. U. S. N. M. 72; 6, 9-10, 1927.
- Lepidocyrtus usitatus*  
 nibFolsom, P. U. S. N. M. 72; 6, 8-9, 1928.
- Lepidoderma albohirtum*  
 Jarvis, Penn. Crop Protec. Inst. C. 4; 4, 4, 1925.  
 Jarvis, Internat. Cong. Ent. 4, Tr. 2, 25-26, 30-33, 1929.  
 Swezey, Internat. Soc. of Sugar Cane Technol. Proc. 1:14, 1924.
- Lepidomys nevalis*  
 nBarnes & Benjamin, Proc. Ent. Soc. Wash. 27, 127-128, 1925.
- Lepidophora appendiculata* 121-122, *culiciformis* 126-127, *lepidocera* 122-123, *secutor* 125-126, spp. 119-127, *vetusta* 123-125  
 Painter, Trans. Amer. Ent. Soc. 51, 1925.
- Lepidopsallus miniatus*, *ovatus*, *pusillus*  
 nKnight, Brooklyn, Ent. Soc. B. 20, 226-228, 1925.
- Lepidoptera*—Blowing eggs of  
 Gunder, Can. Ent. 60, 1-4, 1928.
- Lepidoptera*—Boreal America  
 Barnes & Benjamin, So. Cal. Acad. Sci. B. 26, 35-50, 1927.
- Lepidoptera*—California  
 iComstock, S. Cal. Acad. Sci. B. 28, 22-31, 1929.
- Lepidoptera*—Clark collection  
 C. W. J., Ent. News 39, 23-24, 1928..
- Lepidoptera*—Diurnal  
 Barnes & Benjamin, So. Cal. Acad. Sci. B. 25, 88-98, 1926.  
 McDunnough, Can. Ent. 60, 266-267, 1928.
- Lepidoptera*—Effect of temperature on egg  
 Eidmann, Internat. Cong. Ent. 4, Tr. 2, 355-356, 1929.
- Lepidoptera*—Evolution  
 iGunder, Ent. News 39, 105-111, 1928.
- Lepidoptera*—N. Am. types  
 Barnes & Benjamin, Ent. News 37, 139-140, 1926.
- Lepidoptera*—of N. Am. Institutions  
 iGunder, Ent. News, 40, 281-286, 313-318, 1929.
- Lepidoptera*—Pacific Coast  
 Comstock, So. Cal. Acad. Sci. B. 24, 3-4, 1925.
- Lepidoptera*—Poison apparatus  
 biGilmer, Ann. Ent. Soc. Amer. 18, 203-239, 1925.
- Lepidoptera*—Poison ivy  
 Criddle, Can. Ent. 59, 99-101, 1927.
- Lepidoptera*—Seton Lake Region  
 iMcDunnough, Can. Ent. 59, 152-162, 193-199, 207-214, 239-246, 266-277, '27.
- Lepidoptera*—Stretch collection  
 Barnes & Benjamin, Pan-Pacific Ent. 1, 127, 1925.
- Lepidoptera*—Synonymy  
 Barnes & Benjamin, Brklyn. Ent. Soc. B. 20, 189-199, 1925.  
 nBarnes & Benjamin, Ins. Insc. Mens. 14; 1-2, 1-10, 1926.
- Lepidoptera*—Transition forms  
 iGunder, Ent. News 38, 263-271, 1927.

**Lepidoptera—Tropisms**

- McIndoo, J. Wash. Acad. Sci. 19, 153-154, 1929.  
 iBlMcIndoo, Sm. Misc. Col. 81; 10, 1-59, 1929.
- Lepidosaphes beckii (Purple scale)\***  
 Brock, Cal. Cit. 12, 411, 1926.  
 Brock, Cal. Cit. 13, 65, 1927.  
 Brock, Cal. Cult. 69, 532, 1927.  
 Chaffin, Fla. St. Plt. Bd. Mo. B. 12, 67, 1927.  
 iDelcurto, Halstead & Halstead, Tex. Dept. Agr. B. 79, 83, 1925.  
 iDozier, Ala. Poly. Ext. C. 73, 1924, 14p.  
 iHinds, La. Ext. C. 122, 7-9, 1929.  
 Howard, Cal. Dept. Agr. Mo. B. 18, 620, 1929.  
 iHume, Cultivation of Citrus Fruits, 1926, 432-434, 1926.  
 Morris, Calif. Cult. 68, 649, 1927.  
 Watson, Citrus Industry 5; 5, 26, 1924.  
 iWatson, Fla. B. 183, 297-302, 1926.  
 Watson, Fla. P. B. 403, 1928, 2p.  
 Westmoreland, Fla. Ent. 11, 53-54, 1928.  
 Winberg, Gulf Coast Gr. 2:8, 3-4, 1925.  
 Woglum, Cal. Fr. Gr. Exch. B. 3, 14, 1926.  
 Woglum, Cal. Fr. Gr. Exch. B. 4, 21-22, 1927; B. 5, 19-20, 1928; B. 6, 16-18, 1929.  
 Wolff, Calif. Cult. 69, 530, 1927.  
 iWoodhams, Cit. Leaves 8:4, 3-6, 1928.
- Lepidosaphes chinensis**  
 niChamberlin, Pan-Pac. Ent. 2, 85-87, '25.
- Lepidosaphes ficus**  
 Urbahns, Cal. Agr. B. 14, 177-178, 1926.
- Lepidosaphes gloveri (Glover's scale)\***  
 iHinds, La. Ext. C. 122, 9, 1929.  
 iHume, Cultivation of Citrus Fruits, 1926, 434-435.  
 iWatson, Fla. B. 183, 312-313, 1926.
- Lepidosaphes ilicis**  
 niHoke, Ann. Ent. Soc. Amer. 20, 352-353, 1927.
- Lepidosaphes pomorum**  
 iPettit, Mich. Ent. R. f. 1927, 10-11.  
 iPettit, Mich. St. Bd. Agr. R. 66, 346-347, 1928.
- Lepidosaphes solidaginis**  
 niHoke, Ann. Ent. Soc. Amer. 20, 354-355, 1927.

- Lepidosaphes ulmi (Oyster-shell scale)\***  
 Bailey, Comm. Agr. Vt. Bien. R. 13, 65, 1926.  
 iBrittain, N. S. Dept. Nat. Resource B. 12, 49, 1927.  
 iBritton & Zappe, Conn. B. 292, 123-124, 1927.  
 iCrawford, N. C. Dept. Agr. B. Jan. 1926, 7.  
 Crowley, Wash. B. 230, 27-28, 1929.  
 iDavis, Ind. Acad. Sci. Proc. 41, 311-312, 1925.  
 iGillette & Langford, Colo. Ent. C. 46, 3-5, 1925.  
 biGriswold, N. Y. C. M. 93, 1925, 55p.  
 iHamilton, N. J. C. 179, 11-13, 1926.  
 Kuehner, Wis. Hort. 19, 167, 1928.  
 Lieber, Ind. Dept. Conserv. R. 6, 39, 1925; R. 9, 47-48, 1927.  
 List, Colo. Ent. C. 47, 25-31, 1925.  
 McConnell, Md. B. 298, 186-187, 1928.  
 iMiddleton, Garden Club B. 6 (ser. 4) 20, 1929.  
 iPeirson, Me. For. Serv. B. 5, 28-30, 1927.  
 iQuaintance & Sasscer, U. S. F. B. 723 rev. 1929, 15p.  
 Ross, Can. Dept. Agr. Ent. Br. C. 37, 1925, 4p.  
 Ruhmann, Proc. Ent. Soc. B. C. 22, 33-35, 1925.  
 Spittall, Proc. Acadian Ent. Soc. 10, 69, 1925.  
 Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 48, 1926.  
 iTrimble, Pa. Dept. Agr. B. 8; 2, 12, 1925; Gen. B. 480, 12, 1929.
- Lepidoselaga crassipes**  
 Dunn, Amer. J. Med. 9, 502, 1929.
- Lepidostola colombia**  
 nCurran, Ann. Ent. Soc. Amer. 22:495, '29.
- Lepidostola jenningsi**  
 nShannon, Proc. Ent. Soc. Wash. 27, 108-109, 1925.
- Lepiodes scolopacinaris**  
 Barnes & Benjamin, Pan-Pac. Ent. 4, 133, 1928.
- Lepisma domestica (Fire brat)**  
 iGibson & Twinn, Can. Dept. Agr. B. 112, 46, 1929.
- Lepisma saccharina (Silver fish)\***  
 iBrittain, N. S. Dept. Nat. Resource B. 12, 119, 1927.

**Lepisma saccharina** *Cont'd*

Cooley, Mont. B. 170, 23, 1925.

iDavis, Ind. C. 150, 8-9, 1928.

Fernald, Applied Ent. ed. 2, 63, 1926.

Gibson &amp; Twinn, Can. Dept. Agr. B. 112, 46, 1929.

**Lepisma saccharina**

iHungerford, Kans. St. Bd. Agr. Bien. R. 24, 98-99, 1924.

Lieber, Ind. Dept. Conserv. R. 9, 50, 1927.

iMcDaniel, Mich. C. B. 101, 7-11, 1928.  
Maheux, Quebec Soc. Protec. Pl. R. 18, 109, 1926.**Leprocera** spp.

Blake, Ill. Biol. Mong. 10:4, 80, 1926.

**Lepronia robusta**

Myers, Psyche 35, 123-124, 1928.

**Lepirus cyaneus**

Hubbell, Fla. Ent. 9, 44, 1925.

**Leptacis abdominator**

nFouts, Proc. Ent. Soc. Wash. 27, 101-102, 1925.

**Leptacis aliena**

nFouts, Proc. Ent. Soc. Wash. 29, 176, 1927.

**Leptacis angustula, carinator, dubiosa**

nFouts, Proc. Ent. Soc. Wash. 27, 100-101, 1925.

**Leptacis longispina**

nFouts, Proc. Ent. Soc. Wash. 29, 175-176, 1927.

**Leptacis platygaster**

nFouts, Proc. Ent. Soc. Wash. 27, 100-101, 1925.

**Leptacis polita**

nFouts, Proc. Ent. Soc. Wash. 28, 177-178, 1926.

**Leptacis texana**

nFouts, Proc. Ent. Soc. Wash. 27, 102, '25.

**Leptanilla revelierei**

ibWheeler, Psyche 35, 85-91, 1928.

**Leptidae**

Green, P. U. S. N. M. 70: 2, 1-20, 1927.

†**Leptinotarsa decemlineata** (Colorado potato beetle)\*iBatchelder, J. Agr. Res. 31, 541-547, '25.  
Beaulne, Quebec Soc. Protec. Pl. R. 20: 85, 1928.

Brisley, Trans. Amer. Ent. Soc. 51, 169, 1925.

Brittain, Proc. Acadian Ent. Soc. 10, 23-34, 1925.

iBirttain, N. S. Dept. Nat. Resource B. 12, 89, 1927.

iCaesar, Ont. Dept. Agr. B. 325, 53-55, 1927.

Compton, Ill. C. 297, 16-18, 1925.

Cooley, Mont. B. 170, 27, 1925.

Dean, Cal. Dept. Agr. Sp. Pub. 85, 45-46, 1928.

Eastham, B. C. Dept. Agr. R. 19, K33-K34, 1925.

biPink, Biol. Bul. 49, 381-406, 1925.

Fritzsche, Farmer 47; 31, 5, 1929.

iGibson et al, Canada Dept. Agr. B. 52, new ser. 1925, 30p.

Gillette, Colo. Ent. C. 47, 16-17, 1925.

Gorham et al, Ont. Ent. Soc. R. 59, 14, 1929.

Griner, Cal. Dept. Agr. Sp. Pub. 85, 79-80, 1928.

Hoerner, Colo. Ent. C. 47, 16-17, 1925.

Iddings, Ida. B. 135, 28-29, 1925.

Jacobsen, Cal. Dept. Agr. Mo. B. 17, 671, 1928.

iLadd, N. Y. C. B. 35; 20, 1929.

Lathrop, S. C. Clemson Col. Weekly News Notes 13; 45, 1925.

McHatton, Firor &amp; Keener, Ga. Ext. B. 257 rev., 25-26, 1926.

McLaine, J. Ec. Ent. 22, 344-345, 1929.

Marcovitch, Tenn. B. 139, 37-39, 1928.

Moseley, Kans. Union Farm. 21:10, 4, 1928.

Moseley, Potato Assoc. Amer. Proc. 15, 259-262, 1928.

iMote, Oreg. C. 65, 34-35, 1926.

Musser, Moore &amp; Pepper, S. C. Ext. B. 83, 20, 1927.

Park, Oreg. St. Bd. Hort. Bien. R. 19, 48, 60, 1927.

iPettit, Mich. Sp. B. 183, 35-36, 1929.

Quinn, Mo. B. 240, 24, 1926.

Regan, Proc. Mont. Hort. Soc. 27, 88, 1927.

biRivnay, J. N. Y. Ent. Soc. 36, 125-146, 1928.

Robertson, B. C. Dept. Agr. R. f. 1927, Q 23, 1928.

Robinson, J. Agr. Res. 37, 12, 749-750, 1928.

Spittall, Proc. Acadian Ent. Soc. 10, 69, 1925.

iTalbert, Amer. Prod. Grow. 4; 8, 9, 1929.

- Watson, Fla. Dept. Agr. Quar. B. 39: 3;  
121, 1929.
- White, Proc. Ent. Soc. Wash. 30, 71-72,  
1928.
- Leptinotarsa lineolata**  
Brisley, Trans. Amer. Ent. Soc. 51, 170,  
1925.
- Leptinotarsa lineata**—Quarantine  
Marlatt, Flor. Exch. 59, 784-785, 1925.
- Leptinotarsa undecimlineata**  
Ballou, J. Ec. Ent. 21, 235-236, 1928.
- Leptinus testaceus**  
bPark, Psyche, 36, 195-215, 1929.
- Leptobyrsa rhododendri**  
iBritton & Zappe, Conn. B. 292, 167, '27.  
Downes, Proc. Ent. Soc. B.C. 22, 17, 1925.
- Leptocera abundans** 151-152, **albifrons**  
147-148, **carinata** 153-154, **cellularis**  
79-80, **concava** 83, **curtipennis** 150-  
151, **dissimilicosta** 148-149, **elegans**  
149-150  
niSpuler, J. N. Y. Ent. Soc. 33, 1925.
- Leptocera ferruginata**  
iSpuler, Can. Ent. 57, 123, 1925.
- Leptocera gibba**, **gracilipennis**  
niSpuler, J. N. Y. Ent. Soc. 33, 78-79, 154-  
155, 1925.
- Leptocera inconspicua** 82, **levifrons** 77-78  
nHussey, J. N. Y. Ent. Soc. 33, 1925.
- Leptocera levigena**  
niSpuler, J. N. Y. Ent. Soc. 33, 152-153,  
1925.
- Leptocera lineafrons**  
niSpuler, Can. Ent. 57, 103-104, 1925.
- Leptocera longicosta**  
niSpuler, J. N. Y. Ent. Soc. 33, 155-156,  
1925.  
Wilson & Stoll, Science n.s. 69: 1796,  
577-579, 1929.
- Leptocera lucifuga**  
niSpuler, Can. Ent. 57, 117-119, 1925.
- Leptocera luctuosa**  
niSpuler, J. N. Y. Ent. Soc. 33, 157-158,  
1925.
- Leptocera luxor**  
niSpuler, Can. Ent. 57, 101-102, 1925.
- Leptocera maculipennis**  
nHussey, J. N. Y. Ent. Soc. 33, 80-81,  
1925.
- Leptocera madaris** 102-103, **mirabilis** 76-  
77, **mittelli** 124  
iSpuler, Can. Ent. 57, 1925.
- Leptocera nasuta**  
nHussey, J. N. Y. Ent. Soc. 33, 84, 1925.
- Leptocera nigrifrons**  
niSpuler, J. N. Y. Ent. Soc. 33, 158-159,  
1925.
- Leptocera ordinaria**  
niSpuler, J. N. Y. Ent. Soc. 33, 159-160,  
1925.  
Wilson & Stoll, Science n.s. 69, 577-579,  
1929.
- Leptocera orthoneura**  
nSpuler, Can. Ent. 57, 102, 1925.
- Leptocera palliceps** 82, **pallicornis** 83,  
**parva** 82, **perparvi** 83; Hussey, J. N. Y.  
Ent. Soc. 33, 1925.
- Leptocera rara**  
niSpuler, J. N. Y. Ent. Soc. 33, 155, 1925.
- Leptocera robusta**  
nHussey, J. N. Y. Ent. Soc. 33, 81, 1925.
- Leptocera rufa**  
niSpuler, Can. Ent. 57, 122, 1925.
- Leptocera seticosta**  
niSpuler, Can. Ent. 57, 120-121, 1925.
- Leptocera spinipennis**  
iSpuler, Can. Ent. 57, 116-117, 1925.
- Leptocera tenebrarum vagans**  
iSpuler, Can. Ent. 57, 117, 123-124, '25.
- Leptocera varicosta**  
Spuler, J. N. Y. Ent. Soc. 33, 76, 1925.
- Leptocera winnemana**  
nMalloch, Brklyn. Ent. Soc. B. 20, 97, '25.
- Leptocera xanthocephala**  
nHussey, J. N. Y. Ent. Soc. 33, 82, 1925.
- Leptoconops**—n.sp.  
Painter, United Fruit Co. Med. Dept. R.  
15, 257, 1926.
- Leptocoris trivittatus** (Boxelder bug)\*  
Davis, Ind. Acad. Sci. Proc. 41, 316,  
1925.  
de Gryse, Can. Dept. Agr. Ent. Br.  
Pam. 47 n.s. rev. ed. 17, 1925.  
iGibson & Twinn, Can. Dept. Agr. B.  
112, 67-68, 1929.  
Long, J. Ec. Ent. 21, 433-434, 1928.  
Ruhmann, British Columbia Dept.  
Agr. R. 21, N39, 1927.
- Leptocoris tipuloides**  
Watson, Fla. Dept. Agr. Quar. B. 39: 3;  
108, 1929.
- Leptocoris varicornis**  
Vandenberg, Guam. R. f. 1925, 19, 1926.

- Leptodictya championi* 46-47, *colombiana* 48, *evidens* 49-50, *formosatis* 50, *fusca* 50-51, *luculenta* 49, *madelinae* 47.  
nDrake, Iowa St. Col. J. Sci. 3, 1928.
- Leptodictya nicholi*  
nDrake, Brklyn. Ent. Soc. B. 21, 126-127, 1926.
- Leptodictya plana*  
Drake, Fla. Ent. 9, 38, 1925.
- Leptodictya sodalatis*  
nDrake, Iowa St. Col. J. Sci. 3, 48-49, '28.
- Leptodictya tabida*  
Drake, Fla. Ent. 9, 38, 1925.  
Van Zwaluwenburg, J. Ec. Ent. 19, 668, 1926.
- Leptodictya vulgata*, *williamsi*  
nDrake, Iowa St. Col. J. Sci. 3, 46-48, 1928.
- Leptogaster ludens*  
nCurran, Amer. Mus. Nov. 272, 1, 1927.
- Leptogaster venustus*  
inBromley, Ann. Ent. Soc. Amer. 22, 274-275, 1929.
- Leptogenys peninsularis*  
nMann, Psyche 33, 102-103, 1926.
- Leptoglossus occidentalis*  
Dennys, Proc. Ent. Soc. B. C. 24, 23, '27.
- Leptoglossus oppositus* (Northern leaf-footed bug)  
Chittenden, Brooklyn Ent. Soc. B. 20, 148-149, 1925.  
iSnapp, U. S. F. B. 1557, 35, 1928.  
Snapp, Tenn. St. Hort. Soc. Proc. 24, 74, 1929.
- Leptoglossus phyllopus* (Leaf-footed bug)\*  
Bissell, J. Ec. Ent. 22, 597-598, 1929.  
iWatson, Fla. Dept. Agr. Quar. B. 39; 3; 119-120, 1929.
- Leptoglossus* sp.  
Jacobsen, Cal. Dept. Agr. Mo. B. 17, 658, 1928.
- Leptoglossus zonatus*  
iFawcett, Phytopath. 19, 479-482, 1929.  
iQuayle, Cal. Cit. 14, 125, 1929.  
Urbahns, Cal. Agr. B. 14, 177, 1926.
- Leptolithrips*—n. gen., *manilae*  
nMoulton, Brklyn Ent. Soc. B. 22, 198-200, 1928.
- Leptomastidea abnormis*  
Essig, Insects of Western No. Amer. 1926, 836-837.
- Leptomastix dactylopii*  
iDozier, Porto Rico Dept. Agr. J. 10: 3 & 4, 267-269, 1926.
- Leptomastix nigrocoxalis*  
niCompere, Cal. Univ. Pub. Ent. 4, 219-220, 1928.
- Leptomonas pyraustae*  
nPaillot, Internat. Corn Borer Invest. Sci. R. 1, 98-103, 1928.
- Leptomydas bequaerti* 144, *jonesii* 143, *solitarius* 142; Johnson, Bost. Soc. Nat. Hist. Proc. 38, 1926.
- Leptonia hospes*  
nMann, Psyche 32, 167-168, 1925.
- Leptopharsa calopa* 54, *celebratis* 53-54, *cubana* 56, *digitalis* 22, *distantis* 53, *distinconis* 54-55  
nDrake, Iowa St. Col. J. Sci. 3, 1928.
- Leptopharsa hoffmani*  
nDrake, Proc. Biol. Soc. Wash. 41, 21, 1928.
- Leptopharsa myersi*  
nDrake, Psyche, 33, 87-88, 1926.
- Leptopharsa peruensis* 56, *tenuatis* 52, *walcotti* 55-56  
nDrake, Iowa St. Col. J. Sci. 3, 1928.
- Leptophlebia adoptiva*  
nMcDunnough, Can. Ent. 61, 169-170, '29.
- Leptophlebia bicornuta*  
nMcDunnough, Can. Ent. 58, 299, 1926.
- Leptophlebia debilis*  
McDunnough, Can. Ent. 57, 169, 1925.
- Leptophlebia invalida*, *ontario*  
inMcDunnough, Can. Ent. 58, 297-299, '26.
- Leptophlebia packii*  
niNeedham, Can. Ent. 59, 45-47, 1927.  
iNeedham and Christenson, Utah B. 201, 10-11, 1927.
- Leptophlebia pallipes*  
iMcDunnough, Can. Ent. 58, 296-297, '26.  
iNeedham and Christenson, Utah B. 201, 10, 1927.
- Leptophlebia temporalis*  
inMcDunnough, Can. Ent. 58, 297, 1926.
- Leptopsilopa mutabilis*  
nCresson, Trans. Amer. Ent. Soc. 51, 250, 1925.
- Leptopsylla ebrighti*  
niFox, Pan-Pacific Ent. 2, 182-183, 1926.
- Leptopsylla musculi*  
Williams, U. S. Pub. Health R. 44, 455, 1929.

- Leptostylus aculifer**  
 Champlain, Kirk & Knull, Ent. News 36, 140, 1925.  
 Champlain, & Kirk, Ent. News 37, 290, '26.
- Leptostylus albofasciatus**  
 nFisher, PUSNM 68; 22, 16-18, 1926.
- Leptostylus antillarum**  
 nFisher, Amer. Mus. Nov. 174, 5-7, '25.
- Leptostylus atromaculatus**  
 nFisher, PUSNM 68; 22, 18-19, 1926.
- Leptostylus bahamicus**  
 nFisher, Amer. Mus. Nov. 174, 3-4, '25.
- Leptostylus bruneri**  
 nFisher, PUSNM 68; 22, 23-24, '26.
- Leptostylus cristatus**  
 nFisher, Amer. Mus. Nov. 174, 7-8, '25.
- Leptostylus duvali**  
 nFisher, PUSNM 68; 22, 19-21, 1926.
- Leptostylus gundlachi**  
 nFisher, Amer. Mus. Nov. 174, 2-3, 1925.
- Leptostylus knulli**  
 nFisher, Proc. Ent. Soc. Wash. 27, 103-105, 1925.
- Leptostylus longicornis**  
 nFisher, PUSNM 68; 22, 15-16, 1926.
- Leptostylus macula**  
 Peirson, Me. For. Serv. B. 5, 47, 1927.
- Leptostylus poeyi**  
 nFisher, Amer. Mus. Nov. 174, 4-5, '25.
- Leptostylus pusillus**  
 nBlatchley, Can. Ent. 57, 167, 1925.
- Leptostylus pygmaeus**  
 nFisher, PUSNM 68, 22, 24-26, 1926.
- Leptothorax congruus**  
 nWheeler, Amer. Mus. Nov. 259, 1, 1927.  
 nWheeler, Amer. Mus. Nov. 361, 7-8, 29.
- Leptothorax emersoni**  
 bWheeler, Foibles of insects & men, 1928, 85-126.
- Leptothorax galeatus**  
 nWheeler, Amer. Mus. Nov. 259, 1-2, '27.
- Leptothorax pergandei**  
 nSmith, Ann. Ent. Soc. Amer. 22: 549-551, 1929.
- Leptothorax risi**  
 niWheeler, Amer. Acad. Arts & Sci. Proc. 62; 3, 111, 1927.
- Leptothorax wheeleri**  
 niCurran, Ann. Ent. Soc. Amer. 22: 547-549, 1929.
- Leptothrips anali**  
 Dozier, Del. Ext. C. 26, 6, 1929.
- Leptothrips heliomanes**  
 nHood, Proc. Biol. Soc. Wash. 40, 202, '27.
- Leptothrips mali**  
 Gentner, Mich. Sp. B. 148, 19, 1925.
- Leptopypha costata, mactella**  
 Drake, Fla. Ent. 9, 28, 1925.
- Leptura canadensis (Canadian leptura)**  
 Peirson, Me. For. Serv. B. 5, 70, 1927.
- Leptura dolorosa**  
 Hardy & Preece, Pan-Pac. Ent. 3, 36, '26.
- Leptura emarginata**  
 Champlain, Kirk & Knull, Ent. News 36, 107, 1925.
- Lepturges chamaeropsis**  
 nFisher, PUSNM 68; 22, 27-28, 1926.
- Lepturges facetus, minutus**  
 Champlain, Kirk & Knull, Ent. News 36, 141, 207, 1925.
- Lepturges neomexicanus**  
 nChamplain & Knull, Ann. Ent. Soc. Amer. 18, 470, 1925.
- Lepturges querci 141, regularis 140, signatus 140, symmetricus 140;** Champlain, Kirk & Knull, Ent. News 36, 1925.
- Lepturini**  
 Swaine, Canada Dept. Mines. Nat. Mus. B. 52, 3-97, 1928.
- Leptus americanus**  
 iDavis, Ind. C. 150, 24, 1928.
- Lepyronia robusta**  
 nMetcalf, Psyche 32, 103, 1925.
- Lepyrus nordenskioldi, oregonus, spp.**  
 nVan Dyke, Pan-Pac. Ent. 5, 53-58, 1928.
- Lerodea eufola**  
 Comstock, S. Cal. Acad. Sci. B. 28, 29, '29.
- Leskia pellucens**  
 nCurran, Trans. Amer. Ent. Soc. 51, 261-262, 1925.
- \*Lesser apple worm, see Laspeyresia prunivora**
- Lesser wax moth, see Achroia grisella**
- \*Lesser bulb fly, see Eumerus strigatus**
- \*Lesser clover leaf weevil, see Phytonomus nigrirostris**
- Lesser corn stalk borer, see Elasmopalpus lignosellus**
- Lesser grain borer, see Rhizopertha dominica**
- Lesser house fly, see Homalomyia canicularis**
- Lesser migratory grasshopper, see Melanoplus atlantis**

- Lesser oak carpenter worm, *see* *Prionoxystus macmurtrei*
- \*Lesser peach borer, *see* *Aegeria pictipes*
- Lesser prionus, *see* *Orthosoma brunneum*
- Lesser willow leaf beetle, *see* *Galerucella cavicollis*
- Lestodiplosis iridipennis*  
nJohnson, *Psyche* 35, 216, 1928.
- Lestodryinus dichrous, striatus*  
niFenton, *PUSNM* 72; 8, 1-2, 1928.
- Lestremia garretti, occidentalis*  
nFelt, *Can. Ent.* 58, 265-266, 1926.
- Lethe callipteris, diana*  
Nakahara, *Ins. Insc. Mens.* 14, 47-49, '26.
- Lethocerus americanus* (Giant water bug)\* Electric light bug.  
Hungerford, *Psyche* 32, 88-90, 1925.  
Fernald, *Applied. Ent.* ed. 2, 186, 1926.
- Lettuce bug, *see* *Corizus hyalinus*
- Lettuce insects—Japanese  
McCollam, *West. Wash. B.* 8-W (n.s.) 11, 1928.  
White, U. S. F. B. 1609; N. 1929, 21-22.
- Leucaspis bambusae*  
Galloway, U. S. D. A. B. 1329, 41, 1925.
- Leucaspis japonica* (Japanese maple scale)  
Britton, *Conn. B.* 285, 276, 1927.
- Leucaspis knemion*  
inHoke, *Proc. Ent. Soc. Wash.* 27, 36, 1925.
- Leucocera hoffmani*  
niBlake, *Brklyn. Ent. Soc. B.* 23: 93-95, '28.
- Leucopis americana* (Pruniose aphid-fly)  
Cole, *Fla. Hort. Assoc. Proc.* 38, 156, '25.  
ibMiller, *Fla. B.* 203, 461, 1929.
- Leucopis atrifacies*  
nAldrich, *Pan-Pacific Ent.* 1, 152, 1925.
- Leucopis bella*  
— *Cal. Dept. Agr. News* 8: 14, 42-43, 1926.
- Leucoptera coffeella*  
iBruner, *Cuba C.* 68, 26-28, 1929.
- Leucoptera robiniella*  
nBraun, *Can. Ent.* 57, 150, 1925.
- Leucospis affinis* 29, *birkmani* 23-25, *japonica* 29, *malabarensis* 27-28, *muiri* 25-27  
nBrues, *Psyche* 32, 1925.
- Leucotermes aureus*  
ibLight, *Cal. C.* 314, 19-20, 1929.
- Leucotermes flavipes*  
iPettit, *Mich. St. Bd. Agr. R.* 63, 209-211, 1924.
- Leucotermes tenuis*  
Bequaert, *Ent. News* 36, 293, 1925.
- Leucothrips nigripennis*  
Pettit, *Mich. R.* 38, 219, 1925.  
iPettit, *Mich. Bd. Agr. R.* 64, 219, 1926.
- Leucothyreus phytaloides, pygmaeus*  
nDrake, *Annals Carnegie Mus.* 17; 1, 88-89, 1926.
- Leucotmemis pardalimacula*  
nDyar, *Pan.-Pacific Ent.* 4, 10, 1927.
- Leuctra claasseni*  
nilbFrison, *Ill. Nat. Hist. Surv. B.* 18, 404-407, 1929.
- Leuronota michoacana*  
niFerris, *Can. Ent.* 60, 241-242, 1928.
- Levuana iridescens*  
Bryan, *J. Ec. Ent.* 18, 640-641, 1925.  
Cockerell, *Science*, 68, 566-567, 1928.
- Libellulinae*  
Byers, *Ent. News* 38, 113-115, 1927.  
bSeemann, *J. Ent. & Zool.* 19, 29-33, 1927.  
iNeedham & Broughton, *Trans. Amer. Ent. Soc.* 53, 157-190, 1927.
- Liburnia teapae*  
Osborn, *J. Ec. Ent.* 19, 105, 1926.
- Libythea bachmani*—Migrations  
Parman, *Ent. News* 37, 101-106, 1926.
- Lice  
iGibson & Twinn, *Can. Dept. Agr. B.* 112, 20-21, 1929.  
iChandler, *Animal Parasites*, ed. 3, 387-403, 1925.  
Insko, *South. Agr.* 59; 18, 21, 1929.  
biWeed, *Med. Dept. U. S. Army World War* 6, 993-1065, 1926.
- Lice and disease  
Rosenau, *Preventive Med.* ed. 5, 359-373, 1927.
- Lice and typhus  
Maxcy, *U. S. Pub. Health R.* 41; 52, 2982, 1926.
- Lice on cattle  
A. S. A., *Rural N. Y.* 86, 571, 1927.  
Imes, *Vet. Med.* 24, 439, 1929.  
Smith, *Farm. Advoc.* 61, 1697, 1926.  
W. C. Dairy Farm. 24; 13, 28, 1926.
- Lice on dog  
Price, *Ohio Vet. Alumni Q.* 17; 1, 32-33, 1929.
- Lice on domestic animals  
Bourne, *Colo. Ext. News Notes* 862, 1926.  
1 p.

- Lice on goats  
iImes, U. S. D. A. Leaf, 13, 1928, 8p.
- Lice on hogs  
I. J. M., Success Farm. 24; 7, 30, 1926.
- Lice on horses  
P. W., Dairy Farm. 25; 12, 32, 1927.  
Smith, Farm. Advoc. 61, 1697, 1926.
- Lice on poultry  
Alder, Utah C. 72, 15-16, 1928.  
Bushnell & Brandly, Kans. Manhat. B. 247, 83-85, 1929.  
Eddy, Dairymans League News 13; 29, 13, 1929.  
Embleton, Ariz. Cattlem. & Farm. 12; 39, 2, 1929.  
G. L. R., Dairy Farm. 23; 14, 24, 1925.  
Goodeard, West Farm Life, 31; 17, 20-21, 1929.  
Hart, Poult. Craftsman & Breeder, 44; 3, 46, 1929.  
Kempster, Mo. Farm. 21, 341, 1929.  
Martin, South. Agr. 59; 13, 13, 1929.  
Monahan, Mass. Ext. Leaf. 28, rev. 1928, 4p.  
P., J. E. Better Homes & Gardens 5; 3, 47-48, 1926.  
iSawyer & Worley, West. Wash. Expt. B. 5-W, 26-30, 1927.  
Weaver, Dairym. News, 13; 29, 13, 1929.  
Weaver, Dairym. Rev. 7; 8, 15, 1929.
- Lice on sheep  
Alexander, Amer. Sheep Breeder, 49; 9, 32, 1929.
- Lice on turkeys  
Baker, Turkeys, 1928, 15-16.
- Life—Future balance of  
iClark, Sci. Mo. 24, 548-555, 1927.
- Light and insects  
iBuchanan, Ent. News 38, 165-170, 1927.  
bLukiesch et al, J. Franklin Inst. 208, 73-83, 1929.  
biPeterson & Haeussler, Ann. Ent. Soc. Amer. 21, 353-375, 1928.
- Ligia (Ligyda) pallosii—Brit. Col.  
Johansen, Canad. Field-Nat. 42, 106, 1929.
- Liguus sp (Florida tree snail)  
iSimpson, PUSNM 73; 20, 1929, 44p.
- Ligyrodes relictus  
iHayes, Kans. Tech. B. 16, 106-116, 1925.
- Ligyrys gibbosus (Carrot beetle)\*  
Miss. St. Pl. Bd. Q. B. 7; 1, 19, 1927.
- Ligyrys rugiceps, see Euethiola rugiceps
- Ligyrys tumulosus  
Box P. R. Dept. Agr. J. 9, 304, 1925.
- \*Lilac borer, see Podosesia syringae
- Lilac leaf miner, see Gracilaria syringella
- Lily aphid, see Myzus circumflexum
- Lima bean pod borer, see Etiella zinckeneilla
- Lima bean vine borer, see Monoptilota pergratialis
- Limatus hoffmani  
nRoot, Amer. J. Hyg. 7, 465, 1927.
- Limatus—Key to sp.  
Dyar, Ins. Insc. Mens. 13, 108, 1925.
- Limax agrestis, see Agriolimax agrestis (Garden slug)  
iPettit, Mich. Sp. B. 183, 26-27, 1929.
- Limax maximus (Spotted garden slug)  
bBequaert, J. Parasitol. 11, 201, 1925.  
Britton, Conn. B. 285, 179, 1927.  
Britton & Zappe, Conn. B. 292, 170, 1927.  
Pettit, Mich. Bd. Agr. R. 64, 224, 1926.  
Popenoe, U. S. F. B. 789 rev. Jl. 1925, 6.  
iThompson, Proc. Ind. Acad. Sci. 36, 309-310, 1926.
- Lime sulphur, see Spray materials—Lime sulphur.
- \*Lime tree looper or winter moth, see Erannis tiliaria
- Limmerium alkae  
niEllinger & Sachtleben, Internat. Corn Borer Invest. Sci. R. 1, 113-116, 1928.  
Hergula, Internat. Corn Borer Invest. Sci. R. 2, 113-114, 1929.  
Paillot, Internat. Corn Borer Invest. Sci. R. 1, 88, 1928.
- Limnesia elliptica  
nbMarshall, Trans. Amer. Micr. Soc. 43, 240, 1924.
- Limnesia histronica  
Miller, Ohio B. 386, 123-124, 1925.
- Limnesia koenikei  
nMarshall, Wis. Acad. Sci. Tr. 23, 604, 1927.
- Limnesia paucispina  
Miller, Ohio B. 386, 123, 1925.
- Limnobotodes—n. gen., paradoxus  
iHussey, Bklyn. Ent. Soc. B. 20, 115-118, 1925.
- Limnometra gigas—Tonkin  
nChina, Bklyn. Ent. Soc. B. 20, 218-220, 1925.



**Limnometra skusei**

Torre-Bueno, Bklyn. Ent. Soc. B. 21, 129, 1926.

**Limnophila spp.**

nAlexander, Bklyn. Ent. Soc. B. 22, 63-64, 1927.

niAlexander, PUSNM 72; 2, 11-15, 1928.

nAlexander, J. N. Y. Ent. Soc. 34, 113-114, 1926; 36, 49-50, 1928.

nAlexander, Can. Ent. 59, 190-191, 224-225, 1927.

nAlexander, Ins. Insc. Mens. 14, 21-24, 119-20, 1926.

nAlexander, Bklyn. Ent. Soc. B. 21, 109-112, 1926; 22, 58-63, 110-115, '27.

iNeedham, Amer. Game 18, 77-78, 1929.

**Limnophilella patagonica**

nAlexander, N. Y. Ent. Soc. J. 36, 51-52, 1928.

**Limocercyothrips n. gen., bicolor**

Watson, Fla. Ent. 10; 1, 9-12, 1926.

**Limonia spp.**

Alexander, P.U.S.N.M. art 4, 4, 1925.

nAlexander, Ent. News 40, 45-46, 1929.

nAlexander, Ann. Ent. Soc. Amer. 18, 347-348, 1925; 19, 159, 1926; 20, 303-305, 1927; 21, 636-638, 1928; 22, 769-779, 1929.

nAlexander, J.N.Y. Ent. Soc. 33, 223-224, 1926; 34, 265-266, 1927; 36, 259-260, 335, 359, 1928; 37, 397-403, '29.

nAlexander, Bklyn. Ent. Soc. B. 24, 25, 299-300, 1929.

**Limonia stoneri**

nAlexander, Univ. Iowa Stud. Nat. Hist. 11; 4, 13, 1925.

**Limoniuss cornus**

iMarlatt, U.S.D.A. Ent. R. f. 1929, 19.

**Limoniuss pectoralis**

King, Sci. Agr. 8, 704, 1928.

**Lina arizonae**

Brisley, Trans. Amer. Ent. Soc. 51, 171-172, 1925.

**Lina interrupta**

deGryse, Can. Dept. Agr. Ent. Br. Pam. 47 n.s. rev. ed., 13, 1925.

nSchaeffer, Can. Ent. 60, 43-44, 1928.

Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 32, 1926.

**Lina obsoleta**

nSchaeffer, Can. Ent. 60, 44-45, 1928.

**Lina lapponica**

Britton & Zappe, Conn. B. 292, 145-146, 1927.

Peirson, Me. For. Serv. B. 5, 123, 1927.

**Lina scripta (Cottonwood leaf beetle)\***

Britton & Zappe, Conn. B. 292, 145-146, 1927.

Cooley, Mont. B. 170, 27, 1925.

ideGryse, Can. Dept. Agr. Ent. Br.

Pam. 47, n.s. rev. ed. 13, 1925.

iPeirson, Me. For. Serv. B. 5, 113, 1927.

nSchaeffer, Can. Ent. 60, 44, 1928.

iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 32, 1926.

**\*Linden borer, see Saperda vestita****Linden lacebug, see Gargaphia tiliae****Linden leaf beetle, see Chrysomela scalaris****Lindorus lopanthae**

Vandenburg, Guam R. f. 1925, 17-18, 1926; R. f. 1926, 17, 1928.

**Lined corn borer, see Oligia fractilinea****\*Lined spittle bug, see Philaenus lineatus****Linnaemyia comta**

biAllen, Ent. News 37, 283-286, 1926.

**Linnaemyia conformis, pictipennis**

nCurran, Amer. Mus. Nov. 258, 19-20, 1927.

**Linognathus panamensis**

nEwing, Proc. Ent. Soc. Wash. 29, 110-120, 1927.

**Linognathus pedalis**

iImes, U.S.D.A. Leaf. 13, 1928, 8 p.

**Linognathus piliferus (Sucking dog louse)**

Ewing, Amer. J. Trop. Med. 4, 547-551, 1924.

iHall, U.S.D.A. Dept. C. 338, 13-16, 1925.

**Linognathus stenopsis (Sucking goat louse)**

iImes, No. Amer. Vet. 9, 8, 59, 1928.

Imes, U.S.D.A. Leaf. 13, 1928, 8 p.

**Linognathus vituli (Long-nosed ox louse)**

iBrittain, N. S. Dept. Nat. Resource B. 12, 110-111, 1927.

Guyton, Ala. R. 25, 15, 1928.

Guyton, Ala. R. 26, 14, 1928.

- Linopodes antennaepe*s  
Miller, Ohio B. 386, 93, 1925.
- Liometopum apiculatum* (Stink ant)  
Pijoan, J. Ent. & Zool. 20, 39, 1928.
- Lioscymnus diversipes*  
J. Jam. Agr. Soc. 31, 419, 1927.
- Liosynaphaeta*, n. gen., balloui  
Fisher, P.U.S. N.M. 68, Art. 22, 1-3, 1926.
- Liothrips badius*  
nHood, Proc. Ent. Soc. Wash. 27, 11, 1925.
- Liothrips colimae*  
nMoulton, Pan-Pac. Ent. 6, 17-18, 1929.
- Liothrips corni*  
inMoulton, Trans. Amer. Ent. Soc. 52, 124-126, 1926.
- Liothrips floridensis*  
Watson, Fla. Ent. 9, 39, 1925.
- Liothrips genualis*  
nHood, Proc. Ent. Soc. Wash. 27, 10, 1925.
- Liothrips muscorum*  
nWatson, Fla. Ent. 9, 60, 1926.  
nWatson, Fla. Ent. 10, 19, 1926.
- Liothrips querci*  
nMoulton, Pan-Pac. Ent. 6, 18-19, 1929.
- Liothrips seini*  
nWatson, Fla. Ent. 10, 59-60, 1927.
- Liothrips vaneckeii*  
Jacobssen, Cal. Agr. B. 14, 169, 1926.
- Liothrips zanthocerus*  
nHood, Proc. Biol. Soc. Wash. 40, 203, 1927.
- Liparocephalus*  
iChamberlin & Ferris, Pan. Pac. Ent. 5, 137-143, 153-162, 1929.
- Liparocephalus brevipennis*  
iSaunders, Ann. Ent. Soc. Amer. 21, 542, 1928.
- Liparopsis dympna*  
nSchaus, P.U.S. N.M. 73; 19, 84, 1928.
- Lipeurus caponis*, gallipavonis  
iSwenk & Mussehl, Neb. C. 37, 7, 8, '28.
- Lipeurus heterographus* (Chicken head louse)\*  
Brittain, Proc. Acad. Ent. Soc. 10, 41-42, 1925.  
iHerrick, N. Y. C. Ext. B. 115, 4, 1925.  
iSwenk & Mussehl, Neb. C. 37, 7, 1928.
- Lipeurus infuscatus*  
iKaupp, Vet. Med. 20, 405, 1925.  
iShillinger, Vet. Med. 22, 408, 1927.
- Lipeurus variabilis* (Wing louse)  
iKaupp, Vet. Med. 20, 406, 1925.  
iShillinger, Vet. Med. 22, 405, 1927.
- Liphyra brassolis*  
iClark, Smithsonian Inst. R. f. 1925, 460-466, 1926.
- Liponyssus bursa* (Tropical fowl mite)  
Bushnell & Brandly, Kans. Manhat. B. 247, 81-83, 1929.  
Cutright, Ohio Bi-Mo. B. 14, 100-102, 1929.  
iHerrick, N.Y.C. Ext. B. 115, 6-7, 1925.  
Miller, Ohio B. 386, 131, 1925.
- Liponyssus silviarum* (Feather mite)  
Cleveland, Ind. Ext. B. 109, rev. 7, 1925.  
Cutright, J. Ec. Ent. 22, 422, 1929.  
Cutright, Ohio Bi-Mo. B. 14, 100-102, 1929.  
Payne, J. Ec. Ent. 22, 819-820, 1929.
- Lisothrips birdi*, populi  
nMoulton, Can. Ent. 61, 286-287, 1929.
- Lisothrips varicornis*  
nMoulton, Bklyn. Ent. Soc. B. 24, 240-241, 1929.
- Lissopimpla scutata*, semipunctata  
Girault, Ins. Insc. Mens. 13, 36-37, '25.
- Lissorhoptrus simplex* (Rice water weevil)\*  
Dalton, Rice J. 30; 2, 20, 1927.  
iIngram, U.S.F.B. 1543, 4-8, 1928.  
Prince, Ark. Ext. C. 188, 1925, 2 p.  
iRice J. 31: 6, 25-28, 1928.
- Lisothrips breviceps*, pallipes  
nHood, Psyche, 32, 59, 60, 1925.
- Lisothrips (Prolissothrips) stratulus*  
Morgan, Fla. Ent. 9; 1, 5, 1925.
- Listroderes apicalis*  
binChittenden, Proc. Biol. Soc. Wash. 39, 71-74, 1926.
- Listroderes obliquus* (Australian tomato weevil, Vegetable weevil)\*  
Jacobsen, Cal. Dept. Agr. Mo. B. 15, 116, 129, 1926; B. 16, 375, 1927; B. 17, 653-658, 1928.
- ibLewis, Cal. Mo. B. 16, 378-392, 1927.  
iLewis & Gammon, Cal. Dept. Agr. Mo. B. 17, 482-492, 1928.
- Mackie, Cal. Dept. Agr. Mo. B. 17, 678, 1928.  
Merrill, Cal. R. f. 1927-28, 76, 1929.

*Listroderes obliquus* *Cont'd*

- O'Kane, Cal. Dept. Agr. Mo. B. 18, 437, 1929.  
 Smith, La. Ext. C. 113, 32, 1928.  
 Van Dyke, Pan-Pac. Ent. 3, 63, 1926.  
*Listrognathus agnatus* 21, *albomaculatus* 18-19, *multicolor* 20-21.  
 nCushman, P.U.S.N.M. 74; 16, 1929.  
*Listronotus elegans*  
 nVan Dyke, Pan-Pac. Ent. 5, 107-108, '29.  
*Listronotus rudipennis*  
 Curtiss, Iowa R. f. 1926, 41.  
*Listronotus impressifrons*  
 nVan Dyke, Pan-Pac. Ent. 5, 106-107, '29.  
*Listronotus latiusculus* (Parsley Stalk weevil)  
 iBoyce, J. Ec. Ent. 20, 814-821, 1927.  
 Chandler, J. Ec. Ent. 19, 490-494, 1926.  
*Listronotus leucozonatus*  
 nChittenden, J. N. Y. Ent. Soc. 34, 341, 1926.  
*Listronotus obliquus*, *see* *Listroderes obliquus* (Vegetable weevil)  
*Listronotus rudipennis*  
 iHarris, J. Ec. Ent. 19, 494-496, 1926.  
*Listrus falli* 39-40, *lanei* 40-42, *longicornis* 35-37  
 nBlaisdell, Pan-Pac. Ent. 5, 1928.  
*Listrus medicatus*  
 nBlaisdell, Pan-Pac. Ent. 4, 2, 52-53, '27.  
*Listrus montanus*  
 Blaisdell, Ent. News 36, 83, 1925.  
*Listrus pictipes*  
 nBlaisdell, Pan-Pac. Ent. 5, 37-38, 1928.  
*Lithacodes belfragei*  
 nDyar, Ins. Insc. Mens. 13, 16, 1925.  
*Lithocolletis arizonella*  
 nBraun, Can. Ent. 57, 148-149, 1925.  
*Lithocolletes caryaefoliella*  
 iLeiby, N. C. Dept. Agr. B. Feb. 1925, 32-33.  
*Lithocolletis cretaceella*  
 nBraun, Can. Ent. 57, 148, 1925.  
*Lithocolletis diaphanella*  
 Braun, Trans. Amer. Ent. Soc. 51, 15-16, 1925.  
*Lithocolletis guttifinitella*  
 Criddle, Can. Ent. 59, 101, 1927.  
*Lithocolletis inusitatella*, *manzanita*  
 nBraun, Can. Ent. 57, 147-148, 1925.

*Lithocolletis pernavalis*

- nBraun, Trans. Amer. Ent. Soc. 51, 211-212, 1925.  
*Lithocolletis salicifoliella*  
 Dennys, Proc. Ent. Soc. B.C. 24, 21, 1927.  
*Lithocolletis* spp.  
 iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 133-141.  
*Lithocolletis superimposita*  
 nBraun, Trans. Amer. Ent. Soc. 51, 212-213, 1925.  
*Lithoscirtus* spp.—Key  
 Rehn, Tr. Amer. Ent. Soc. 55, 17-32, 1929.  
*Lithurgus bruesi*  
 Mitchell, Psyche 34, 104, 1927.  
*Lithyphantes cyaneus*  
 niWorley, Ann. Ent. Soc. Amer. 21, 631-622, 1928.  
*Litodonta centigerna*  
 nSchaus, P.U.S.N.M. 73; 19, 19-20, 1928.  
*Litopeltis* new spp.  
 niRehn, Trans. Amer. Ent. Soc. 54, 174-190, 1928.  
 Little curler, *see* *Pteronarcella badia*  
 Little earwig, *see* *Labia minor*  
 Little hickory aphid, *see* *Monellia caryella*  
 Little red louse, *see* *Philopterus dentatus*  
 Live oak gall fly, *see* *Andricus pomi-formis*  
 Live stock insects  
 Hall, U.S.D.A. Misc. Pub. 25, 1928, 14 p.  
 Hearle, Ont. Ent. Soc. R. 59, 35-36, 1929.  
 Youngblood, Tex. R. 38, 18, 1925.  
*Lixophaga diatraeae*  
 Aldrich, Proc. Ent. Soc. Wash 27, 134, 1925.  
 Holloway, Planter & Sugar Mfg. 80, 241, 1928.  
 Plank, Internat. Soc. Sugar Cane Tech. Proc. 2d. Confer. 67-69, 1927.  
 ibPlank, Ann. Ent. Soc. Amer. 22, 622-629, 1929.  
 Salt, Harvard Inst. Trop. Biol. & Med. Cont. 3, 34, 1926.  
*Lixophaga jennei*  
 nAldrich, PUSNM 69; 22, 18-19, 1926.

- Lixophaga mediocris*  
nAldrich, Proc. Ent. Soc. Wash. 27, 136, 1925.
- Lixophaga orbitalis*  
nAldrich, PUSNM 69; 22, 17-18, 1926.
- Lixophaga plumbae*  
nAldrich, Proc. Ent. Soc. Wash. 27, 134-136, 1925.
- Lixophaga* sp.  
Flanders, Pan-Pac. Ent. 2, 158, 1926.
- Lixophaga* spp.—Key, *variabilis*  
nAldrich, Proc. Ent. Soc. Wash. 27, 133-134, 1925.
- Lixophaga variabilis*  
Essig, Insects of Western No. Amer. 1926, 579-583.
- Lixus blakeae*  
Blake, Pan-Pac. Ent. 5, 42-44, 1928.  
nChittenden, Proc. Ent. Soc. Wash. 30, 90-91, 1928.
- Lixus concavus* (*Rhubarb curculio*)\*  
iCaesar, Ont. Dept. Agr. B. 325, 62-63, 1927.  
Pettit, Mich. Sp. B. 183, 27, 1929.
- Lixus fimbriolatus*  
Chittenden, Bklyn. Ent. Soc. B. 20, 123, 1925.
- Lixus novellus*  
nBlatchley, J.N.Y. Ent. Soc. 33, 101, 1925.
- Lixus pusio*  
nBlatchley, J.N.Y. Ent. Soc. 36, 250, 1928.
- Lizards—Feeding habits*  
bBurt, Kans. Ent. Soc. J. 1, 50-68, 1928.
- Llaveia oaxacoensis*  
nMorrison, Proc. Biol. Soc. Wash. 40, 107, 1927.
- Llaveiella*—n. gen.  
nMorrison, Proc. Biol. Soc. Wash. 40, 108, 1927.
- Llaveiini*—n. tribe  
nMorrison, Proc. Biol. Soc. Wash. 40, 106-107, 1927.
- Lobeza abdjesa* 53, *arnoula* 52, *genebrada* 52-53, *gilberta* 49, *gunthierna* 53-54, *huacamaya* 49-50, *maronia* 50, *medina* 51-52, *petropolia* 48, *rhenia* 51, *venica* 50-51  
nSchaus, P.U.S.N.M. 73; 19, 1928.
- \*Locust borer, *see* *Cyllene robiniae*
- Locust leaf beetle, *see* *Chalepus dorsalis*
- \*Locust leaf miner, *see* *Chalepus dorsalis*
- Locust tree insects  
Peirson, Me. For. Serv. B. 5, 82, 1927.
- Locust twig borer, *see* *Ecdytolopha insiticiana*
- Locusta migratoria*  
bGranovsky, J. Ec. Ent. 19, 791-795, 1926.  
Otanés, Philippine Agr. Rev. 21, 477-486, 1928.
- Locusts  
Efflatoun, Sci. News Letter 14: 386, 129-130, 1928.  
Filipjev, Internat. Cong. Ent. 4, Tr. 2, 803-812, 1929.  
Goss, Phytopathology 18, 445-448, 1928.  
Heighton, Portage Co. Hort. Soc. Proc. f. 1929, 33-34.  
Ishida, Facts about sugar 22, 161, 1925.  
Johnston, Guide to Nature 19, 69, 1926.  
iMatters, Sci. Amer. 132, 299, 1925.  
Pendleton, Facts about sugar 20, 611, 1925.  
Serrem, Asia, 28, 486-488, 1928.  
Serrem, Lit Digest 98, 49-51, 1928.  
iUvarov, Nat. Hist. Mag. 1; 8, 298-306, 1928.  
Weiss, J. N. Y. Ent. Soc. 35, 209, 1927.
- Locusts—Aeroplane dusting  
Pendleton, Facts about sugar, 20, 611, 1925.  
Pendleton, Sugar News 6; 4, 186-193, 1925.
- Locusts—Brit. Col.  
iBuckell, Brit. Col. Dept. Agr. C. New Hort. Ser. 63, 1926, 12 p.
- \*Lodgepole-pine beetle, *see* *Dendroctonus murrayanae*
- Loganberry crown-borer, *see* *Bembecia marginata*
- Log cabin insects  
St. George, U.S.F.B. 1582, J1.1929, 20 pp.
- Lonatura balli* 97-98, *bicolor* 96-97, *catalina* 99, *melina* 100-101, *noctivaga* 101, *notata* 98-99; iDeLong, Trans. Amer. Ent. Soc. 52, 1926.
- Lonatura* pupa  
nVanDuzee, Proc. Cal. Acad. Sci. ser. 4, 14, 423, 1925.

- Lonatura salsura* 100, spp.—Key 95-96  
 Delong, Trans. Amer. Ent. Soc. 52, 1926.
- Lonchaea corticis*  
 niTaylor, Bklyn. Ent. Soc. B. 23, 192-194, 1928.  
 Taylor, Entom. Amer. n.s. 9, 237-246, 1929.
- ibTaylor, Ent. Amer. 10, 62-64, 1929.
- Lonchaea hirtithorax*  
 nAldrich, P.U.S.N.M. 66; 18, 8-9, 1925.
- Lonchaea mitis*  
 nCurran, Amer. Mus. Nov. 246, 18, 1927.
- Lonchaea* spp.  
 nTaylor, Bklyn. Ent. Soc. B. 23, 191, 1928.
- Lonchaea warsoni*  
 nCurran, Can. Ent. 58, 213, 1926.
- Lonchodes bryanti*  
 nCaudell, PUSNM 71; 3, 19-21, 1928.
- Long-beaked butterfly, *see* *Libythea bachmani*
- Long-beaked thistle aphid, *see* *Anuraphis cardui* (Thistle aphid)\*
- Long-headed flour beetle, *see* *Latheticus oryzae*
- Long-horned locust, *see* *Orchilimum vulgare*
- \*Long-nosed ox louse, *see* *Linognathus vituli*
- Long scale, *see* *Lepidosaphes gloverii* (Glover's scale)\*
- Long spruce cone gall, *see* *Chermes cooleyi*
- \*Long-tailed mealybug, *see* *Pseudococcus adonidum*
- Longistigma caryae* (Giant aphid)  
 Lieber, Ind. Dept. Conserv. R. 8, 45-46, 1926.  
 iKnowlton, Ohio J. Sci. 25, 244-252, 1925.
- Longitarsus fuscicornis*  
 Blatchley, Can. Ent. 57, 168, 1925.
- Longitarsus melanurus*  
 Weese, Ill. Biol. Mon. 9; 4, 15, 1924.
- Longitarsus menthae*, *see* *Longitarsus menthaphagus*
- Longitarsus menthaphagus* (Mint flea beetle)  
 Gardner, Mich. R. f. 1926-28, 15.  
 niGentner, Mich. Quar. B. 7, 109, 1925.  
 iGentner, Can. Ent. 58, 152-153, 1926.
- iGentner, Mich. Sp. B. 155, 1926, 13 p.
- Pettit, Mich. St. Bd. Agr. R. 63, 218-219, 1924.
- nPettit, Mich. Bd. Agr. R. 64, 222, 1926.
- Sievers, U.S.F.B. 1555; rev. Feb. 1929, 23-24.
- Longitarsus nitidellus*  
 Brisley, Trans. Amer. Ent. Soc. 51, 175, 1925.
- Longitarsus ovalis*  
 nGentner, Can. Ent. 58, 153-154, 1926.
- Longitarsus waterhousei*  
 Gentner, Can. Ent. 60, 264-266, 1928.  
 Gentner, Mich. C. B. 125, 1-4, 1929.  
 iPettit, Mich. Sp. B. 183, 43-45, 1929.
- Lophocateres pusillus*  
 iBack & Cotton, U. S. F. B. 1260, rev. Dec. 1925, 32-33.
- Lophoceramica artega*  
 Barnes & Benjamin, Pan-Pac. Ent. 2, 63, 1925.
- Lophopompilus azotus*  
 nBanks, Psyche, 36, 326, 1929.
- Lophoptilus eloisella*  
 iMyers, J.N.Y. Ent. Soc. 35, 241-244, '27.
- Lophyraspis armata*, *fowleri*  
 niHaviland-Brindley, Zoologica, N. Y. 6, 261-262, 1925.
- Lophyrus* (Diprion) *pini*  
 Dohanian, J. Ec. Ent. 20, 315, 1927.
- Lopidea davisii*  
 iCory & McConnell, Md. B. 292, 1927, 22 p.
- Lopidella flavoscuta*  
 nKnight, Bklyn. Ent. Soc. B. 20, 41, 1925.
- Loricera pilicornis*  
 nVan Dyke, Pan. Pac. Ent. 1, 113, 1925.
- Losses from insects, *see* *Insects*, losses caused by
- Lotus borer, *see* *Pyrausta penitalis*
- Loxa flavicollis*  
 iHoffman, Amer. Med. Assoc. J. 88, 145, 1927.
- Loxandrus rectangulus*  
 Blatchley, Can. Ent. 57, 161, 1925.
- Loxaulus trizonalis*  
 nWeld, PUSNM 68; 10, 45-47, 1926.
- Loxocrambus awemensis*  
 niMcDunnough, Can. Ent. 61, 267-269, 1929.

**Loxophaga**

Newell, Fla. R. f. 1927-28, 47R.

Watson, Fla. R. f. 1928, 47R.

**Loxosceles rufescens**Schmaus, J. Am. Med. Assoc. 92; 15,  
1265-1266, 1929.**Loxostege helvialis**

Bottimer, J. Agr. Res. 33, 801, 1926.

**Loxostege kearfottalis**

Dyar, Proc. Ent. Soc. Wash. 30, 140, 1928.

**Loxostege similalis (Garden webworm)\***

Ayres, Miss. B. 227, 36, 1925.

Drake, Iowa Homestead 74, 1360, 1929.

Drake & Decker, Iowa C. 103, 12-13, '27,  
1927.

Ellis, J. Agr. Res. 30, 787, 788, 1925.

Haseman, Mo. Farm. 21, 355, 1929.

ihMohler, Kans. St. Bd. Agr. Quar. R.  
48; 191, 288, 1929.Pepper, Clemson Coll. S.C. Wkly. News  
Notes, 15; 16, 1, 1926.**Loxostege sticticalis (Beet webworm)\***Carter & Ruggles, Minn. Ext. Sp. B.  
99, 4, 1925.

Cooley, Mont. B. 170, 29, 1925.

Curtiss, Iowa R. f. 1927, 34.

Drake &amp; Decker, Iowa C. 103, 13-14, 1927.

iGibson & Twinn, Can. Dept. Agr. B.  
112, 65-66, 1929.

iHawley, Utah C. 54, 8-12, 1925.

King, Sci. Agr. 9, 385, 1929.

**Loxostege unipunctalis**nDyar, Proc. Ent. Soc. Wash. 30, 140-  
141, 1928.**Loxotropa nigrescens**niFouts, Proc. Ent. Soc. Wash. 29, 169-  
170, 1928.\*Lubber grasshopper, *see* **Brachystola**  
**magna****Luceria tranquilla**

Van Duzee, Pan-Pac. Ent. 1, 185, 1925.

**Lucilia argyricephal**Shannon, Proc. Ent. Soc. Wash. 27,  
196, 1925.**Lucilia caesar**

iFelt, N. Y. St. Mus. B. 274, 19, 1928.

McDaniels, Mich. C. B. 106, 12, 1927.

ibTownsend, Ann. Ent. Soc. Amer. 21,  
121-131, 1928.**Lucilia hirtiforceps, ibis, rica**nShannon, Proc. Ent. Soc. Wash. 28,  
132, 1926.**Lucilia sericata (Green bottle fly)**

iBritton, Conn. B. 305, 763, 1929.

biDrbohlav, J. Parasitol. 12, 183-190, 1926.

**Lucilia sericata—Larva**

iTao, Amer. J. Hyg. 7, 750-751, 1927.

**Lucilia spp.**

Davis, Brklyn. Ent. Soc. B. 23, 118, '28.

Shannon, Proc. Ent. Soc. Wash. 28,  
130-131, 1926.**Lucilia thatura, ventata**nShannon, Proc. Ent. Soc. Wash. 28,  
132, 1926.**Luciola picticollis**

Lutz, J. N. Y. Ent. Soc. 35, 315, 1927.

**Lucoppia magnipilosus**

Miller, Ohio B. 386, 143, 1925.

**Ludius aeripennis (Northern prairie**  
**grain wireworm)\***Strickland, Univ. Alberta Coll. Agr.  
Res. B. 2, 1926, 17 p.Strickland, Ont. Ent. Soc. R. 59, 28,  
1929.**Lumbricus sp.**

Cooley, Mont. B. 170, 23, 1925.

**Luminescence in earthworms**

Skowron, Biol. B. 51, 199-208, 1926.

**Luna Moth, *see* Tropaea luna****Lunate onion fly, Lesser bulb fly,\* *see***  
**Eumerus strigatus****Lung mites, *see* Dermanyssidae****Lunomyia, n. gen., cooleyi**iCurran & Fluke, Wis. Acad. Sci. Tr.  
22, 252-254, 1926.**Luperina enargia**nBarnes & Benjamin, Pan-Pac. Ent. 2,  
109, 1926.**Luperodes bimarginata**nBlake, Brooklyn Ent. Soc. B. 23: 183-  
184, 1928.**Luperodes bruchii 251, cyaneoplagiata**

252-253, flavipennis 249, hebaridi

249-250, klageri 252, maculicollis

252, mapirii 248, pilosus 249, pustulatus

248, suturalis 250

nBowditch, Psyche 32, 1925.

**Luperodes thorasicus**

Guyton, J. Ec. Ent. 20, 193-194, 1927.

- Luperodes varicornis* (Corn-silk beetle)  
Barre, S. C. R. 41, 45, 1928.
- Luperodes varipes*  
Brisley, Tr. Amer. Ent. Soc. 51, 174, 1925.
- Luperodes vittatus*  
nBowditch, Psyche 32, 251, 1925.
- Luperus beniensis* 254, *blumenensis* 254-255, *masoni* 253-254, *pallidus* 254  
nBowditch, Psyche 32, 1925.
- Lupine aphid*, see *Macrosiphum albifrons*
- Lusura turnina*  
nSchaus, P.U.S.N.M. 73; 19, 47-48, 1928.
- Luteovopsis longimanus*  
iMcAtee & Maloch, P.U.S.N.M. 67, Art. 1, 37, 1925.
- Lutzia halafaxi*  
Dyar & Shannon, Ins. Insc. Mens. 13, 84, 1925.
- Luzonomyza*  
nMalloch, P.U.S.N.M. 74; 6, 34, 1929.
- Lycaena alcon*, *arion*  
Clark, Smith. Inst. R. f. 1925, 477-487, 1926.
- Lycaena dione*, *helleoides*  
niGunder, Can. Ent. 59, 284-285, 1927.
- Lycaena pseudargiolus*  
i——Md. Acad. Sci. Quar. B. 6; 1, 11, 1927.
- Lycaena snowi*, *thoe*  
niGunder, Can. Ent. 59, 284-285, 1927.
- Lycophotia infecta*  
iCrumb, USDA Tech. B. 88, 103-107, '29.
- Lycophotia margaritosa* (Variegated cutworm)\*  
iBrittain, N. S. Dept. Nat. Resource B. 12, 65-66, 1927.  
iCaesar, Ont. Dept. Agr. B. 325, 6-8, 1927.  
iCrumb, U.S.F.B. 1494, 2-3, 1926.  
Sherman, N. C. R. 47, 73, 1925.  
iWoglum, Cal. Cit. 11, 264-265, 1926.  
Yetter, Colo. Ent. C. 47, 14-15, 1925.
- Lycophotia saucia*  
Crumb, USDA Tech. B. 88, 107-116, '29.
- Lyctus* spp.  
iGibson & Twinn Can. Dept. Agr. B. 112, 49-50, 1929.  
Keen, Cal. Dept. Nat. Res. B. 7, 72, 1928.  
Snyder, Amer. Lumberm. Dec. 12, 1925, 38.
- iSnyder, Jour. Amer. Inst. Arch. 13, 317-319, 1925.  
iSnyder, Nat. Mag. 10, 311-312, 1927.
- Lyda* sp.  
Peirson, Me. For. Serv. B. 5, 100, 1927.
- Lydella*—Key to genera  
Curran, Can. Ent. 59, 11-12, 1927.
- Lydella bigeminata*  
nCurran, Amer. Mus. Nov. 260, 10, 1927.
- Lydella nigripes*  
Burgess & Crossman, U. S. Tech. B. 86, 113, 1929.
- Lydella senilis*  
Dudich, Internat. Corn Borer Invest. R. 2, 189-190, 1928.  
iEllinger & Sachtleben, Internat. Corn Borer Invest. Sci. R. 1, 129-131, 1928; R. 2, 70, 1929.  
Paillet, Internat. Corn Borer Invest. Sci. R. 1, 92, 1928.
- Lydella* spp.  
Seguy, Internat. Corn Borer Invest. Sci. R. 1, 107-108, 1928.
- Lygaeonematus erichsonii*, see *Nematus erichsoni*
- Lygaeus* (*Craspeduchus*) *defensus*  
nVan Duzee, Pan-Pac. Ent. 5, 188-189, 1929.
- Lygaeus* (*Ochrostomus*) *foederatus*  
nVan Duzee, Pan-Pac. Ent. 5, 187-188, 1929.
- Lygidea essigi*  
nVanDuzee, Proc. Cal. Acad. Sci. ser. 4, 14, 394-395, 1925.
- Lygidea mendax* (Apple redbug)\*  
Brittain, N. S. Dept. Nat. Res. B. 12, 44-45, 1927.  
Crosby, et al, N.Y.C.B. 498, 33-35, 1929.  
Frost, J. Ec. Ent. 18, 516-519, 1925.  
Spittall, Ont. Ent. Soc. R. 58, 10, 1928.
- Lygocerus niger*  
Spencer, Ann. Ent. Soc. Amer. 19, 142-145, 1926.
- Lygranthoea viridens*  
nDyar, Proc. Ent. Soc. Wash. 30, 137-138, 1928.
- Lygus communis* (Pear plant bug)\*  
iBrittain, N. S. Dept. Nat. Res. B. 12, 42-44, 1927.  
Brittain, Ont. Ent. Soc. R. 59, 9, 1929.

- Crosby, et al, N.Y.C.B. 598, 50-51, 1929.  
 Kelsall, Nova Scotia Fr. Grow. Assoc.  
 R. 65, 74, 1929.  
 Spittall, Proc. Acad. Ent. Soc. 10, 66,  
 1925.  
 Spittall, Ont. Ent. Soc. R. 58, 12, 1928.  
*Lygus* (*Neolygus*) *deraeocorides*  
 nKnight, Brklyn. Ent. Soc. B. 20, 50, '25.  
*Lygus elisus* (Cotton dauber)  
 McGregor, USDA Tech. B. 4, 1-14, '27.  
*Lygus formica*—*Microtis presocius*  
 bShackelford, Ecol. 10, 126-153, 1929.  
*Lygus invitus* (False tarnished plant  
 bug)  
 iPettit, Mich. R. 38, 220, 1925.  
*Lygus omnivagus*  
 Garman, Conn. B. 305, 730, 1929.  
*Lygus pratensis* (Tarnished plant bug)\*  
 Blake, Ill. Biol. Monog. 10: 4, 77, 1926.  
 iBrittain, N. S. Dept. Nat. Resource B.  
 12, 75-76, 1927.  
 iBritton & Zappe, Conn. B. 292, 139, 1927.  
 iCaesar, Ont. Dept. Agr. B. 325, 15-16,  
 1927.  
 Christie, Ind. R. 41, 42-43, 1928.  
 iCompton, Ill. C. 297, 12-13, 44, 1925.  
 Cooley, Proc. Mont. Hort. Soc. 28, 102,  
 1927.  
 Dean, Amer. Florist, 71; 6, 1929.  
 Flint, Tr. Ill. Hort. Soc. 61, 106, 1927.  
 iHamner, Miss. C. 86, 1929, 4 p.  
 Haseman, J. Ec. Ent. 21, 191-192, 1928.  
 Isely, Ark. Ext. C. 231, 1927, 8 p.  
 J. K. L., Flower Gr. 16: 356, 1929.  
 iLyle, Miss. St. Pl. Bd. Quar. B. 6: 2,  
 7-10, 1926.  
 MacLeod, Penn. St. Col. C. 122, 16-17,  
 1929.  
 iPainter, Ont. Ent. Soc. R. 57, 44-46,  
 1927.  
 Painter, Quebec Soc. Protect. Plants  
 R. 21, 53-55, 1929.  
 Pettit, Mich. Sp. B. 183, 9, 1929.  
 Porter, Ind. Hort. Soc. Tr. 64, 57-58,  
 1925.  
 Porter, Hoosier Hort. 8, 39-43, 1926.  
 iPorter, J. Ec. Ent. 19, 43-48, 1926.  
 iPorter, Chandler & Sazama, Ill. Nat.  
 Hist. Surv. B. 17, 264-267, 1928.  
 Snapp, U. S. F. B. 1557, 37, 1928.  
 Spittall, Proc. Acad. Ent. Soc. 10, 72,  
 1925.  
 iWatson, Fla. Dept. Agr. Quar. B. 39:  
 3; 83-84, 1929.  
 Weese, Ill. Biol. Monog. 9: 4, 16, 1924.  
 ———Hoosier Hort. 8, 3, 39-43, 1926.  
*Lygus quercalba* (Oak plant-bug)  
 bGarman, Conn. B. 305, 729-731, 1929.  
*Lymantria monacha* (Nun moth)  
 Webber, J. Ec. Ent. 20, 303, 1927.  
*Lymnacia phragmitella* (Cat-tail borer)  
 iPettit, Mich. Ent. R. f. 1927, 6-7.  
 iPettit, Mich. St. Bd. Agr. R. 66, 342-  
 343, 1928.  
*Lynchia hirsuta*  
 niFerris, Can. Ent. 59, 249-251, 1927.  
*Lynchia maura* (Pigeon hippoboscid)  
 Barre, S. C. R. 42: 63, 1929.  
*Lynchia weyenbergh*  
 Bequaert, Psyche 32, 266, 1925.  
*Lyonetia clerckella*  
 iNeedham, Frost & Tothill, Leaf-min-  
 ing insects, 1928, 96.  
*Lypha maculipennis*  
 nAldrich, PUSNM 69; 22, 24-25, 1926.  
*Lysana minasensis*  
 nSchaus, P.U.S.N.M. 73; 19, 8-9, 1928.  
*Lysiphlebus plathypena*  
 Swezey, J. Ec. Ent. 19, 718, 1926.  
*Lysiphlebus testaceipes*  
 Fernald, Applied Ent. ed. 2, 207, 1926.  
 Essig, Insects of Western No. Amer.  
 1926, 788.  
 Miller, Fla. B. 203, 462-463, 1929.  
 Swezey, J. Ec. Ent. 19, 718, 1926.  
*Lyssomanes completus*  
 iBanks, B. Harvard Mus. Comp. Zool.  
 69, 76, 1929.  
*Lyssomanes consimilis, dissimilis*  
 niBanks, B. Harvard Mus. Comp. Zool.  
 69, 74-75, 1929.  
*Lytogaster externa, furva*  
 nCresson, Tr. Amer. Ent. Soc. 52, 257,  
 1926.  
*Lytta maculicollis, nigrocyanea*  
 nVan Dyke, Brklyn. Ent. Soc. B. 24,  
 129-131, 1929.  
*Lytta nuttalli* (Nuttall's blister beetle)  
 deGryse, Can. Dept. Agr. Ent. Br. Pam.  
 47, n.s. rev. ed. 23, 1925.



- Macalla aciusa* 28, *boliviana* 28-29, *hyutanahana* 27, *termenipuncta* 26  
 niSchaus, *Annals Carnegie Mus.* 16; 1, 1925.
- Macaria incolorata*  
 McDunnough, *Can. Ent.* 57, 11, 1925.
- Macaria perplexa*  
 nMcDunnough, *Can. Ent.* 59, 244-245, 1927.
- Macremphytus varianus*—Wax glands  
 iDusham, *Ann. Ent. Soc. Amer.* 21, 92-97, 1928.
- Macrimischa (Macromischa) creightoni*  
 nMann, *Proc. Ent. Soc. Wash.* 31, 163-165, 1929.
- Macrobasis murina*  
 iChittenden, *Brklyn. Ent. Soc. B.* 21, 118, 1926.
- Macrobasis unicolor* (Ash-gray blister beetle)\*  
 iCaesar, *Ont. Dept. Agr. B.* 325, 59-60, 1927.
- Macrocentrus abdominalis*  
 iHergula, *Internat. Corn Borer Invest. Sci. R.* 2, 119-120, 1929.  
 iJones, *U.S.D.A. Tech. B.* 98, 8, 1929.  
 iZwölfer, *Internat. Corn Borer Invest. Sci. R.* 1, 138, 1928.
- Macrocentrus ancylovora*  
 Baird, *J. Ec. Ent.* 22, 1000, 1929.  
 Barre, *S. C. R.* 42; 64, 1929.  
 iDaniel, *N. Y. Gen. C.* 106, 6-8, 1928.  
 Daniel, *Amer. Agr.* 124, 361, 1929.  
 iFink, *J. Agr. Res.* 33, 1121-1134, 1926.  
 Peterson, *Ont. Ent. Soc. R.* 59, 84, 1929.  
 Stearns and Neiswander, *Tenn. St. Hort. Soc. Proc.* 24, 89-90, 1929.
- Macrocentrus gifuensis*  
 Baird, *Ont. Ent. Soc. R.* 59, 39, 1929.
- Macrocentrus sp.*  
 iStearns, *N. J. B.* 460, 7-24, 1928.
- Macrocera clavinervis*  
 niVan Duzee, *Cal. Acad. Sci. Proc.* 17; 2, 35, 1928.
- Macrocera floridana*  
 nJohnson, *Psyche* 32, 299, 1925.
- Macrocera hirtipennis*  
 niVan Duzee, *Cal. Acad. Sci. Proc.* 17; 2, 36, 1928.
- Macrocheles clavisetosus, sublaevis*  
 Miller, *Ohio B.* 386, 134-135, 1925.
- Macrochile spectrum*—Anatomy  
 iCrampton, *Brooklyn Ent. Soc. B.* 21, 1-14, 1926.
- Macrocneme appolinairei*  
 nSchaus, *Proc. Ent. Soc. Wash.* 30, 56, 1928.
- Macroductylus subspinosus* (Rose chafer)\*  
 Blake, *Rur. N. Y.* 84, 991, 1925.  
 Bourne, *Mass. Fr. Grow. Assoc. R.* 31, 103, 1925.  
 iBritton & Zappe, *Conn. B.* 292, 128-129, 1927.  
 iCaesar, *Ont. B.* 325, 45-46, 1927.  
 Cummins, *Flower Grower* 14: 5, 248, 1927.  
 iDavis, *Ind. Farm Guide*, 85, 4, 1929.  
 Elliott, *American Rose Annual* for 1923, 181.  
 Eyer & McCubbin, *Pa. Dept. Agr. Gen. B.* 433, 10, 1926.  
 Gillette, *Colo. R.* 39, 30-31, 1927.  
 Gladwin, *Rur. N. Y.* 87, 643, 1928.  
 iGuyton & McCubbin, *Pa. Dept. Agr. Gen. B.* 441, 4-6, 1927.  
 iHartzell, *N. Y. Gen. C.* 74, 1924, 4 p.  
 Hayes, *Ann. Ent. Soc. Amer.* 21, 290, 1928.  
 Herrick, *Rur. N. Y.* 84, 907, 1925.  
 Ross & Hall, *Ont. Ent. Soc. R.* 55, 16-19, 1925.  
 iRoss & Hall, *Can. Dept. Agr. Ent. Br. C.* 44, 1926, 4 p.  
 Runner, *Ohio St. Hort. Soc. Proc.* 59, 35, 1926.  
 Runner, *J. Ec. Ent.* 20, 194-195, 1927.  
 Schultz, *Amer. Peony Soc. B.* 22: 38, 42-43, 1929.  
 Sears, *Productive Small Fruit Culture*, ed. 2, 337-338, 1925.  
 Sears, *Mass. Ext. L.* 64 rev: 14, 1928.  
 iSwenk & Mussehl, *Neb. C.* 37, 16-18, 1928.
- Macrodontomerus silvifilia*  
 nGirault, *Philippine J. Sci.* 32, 555, 1927.
- Macrolophus brevicornis* 315-316, *longicornis* 314-315, *separatus* 313-314, *key to American* 313-316  
 Knight, *Ent. News* 37, 1926.

**Macromia—Key to species**

bSeemann, J. Ent. & Zool. 19, 28, 1927.

**Macromischa pastinifera** 161-162, porphyritis 162-163, versicolor 166.

Mann. Proc. Ent. Soc. Wash. 31, 1929.

**Macronoctua onusta** (Iris borer)\*

bBreakey, Ann. Ent. Soc. Amer. 22, 459-464, 1929.

iBritton & Zappe, Conn. B. 292, 171, '27.

iChamplain, Garden Mag. 39, 290, 1924.

Cory, Md. B. 298, 186, 1928.

Dietz, Amer. Iris Soc. B. 26, 20-24, 1928.

Drake & Decker, Iowa C. 103, 14, 1927.

Lieber, Ind. Dept. Conserv. R. 6, 45,

1925; R. 8, 53-54, 1926; R. 9, 57, '27.

iMcDaniel, Mich. Spec. B. 173, 21-23, 1928.

iMorrison, U.S.D.A.B. 1406, 44-46, 1926.

Potter, Wis. Hort. 19, 382, 1929.

Ries, Amer. Iris Soc. B. for July, 1929, 27-46.

Scott, The Flower Grower 13, 413-414, 1926.

iShull, Amer. Iris Soc. B. 26, 25-28, 1929.

Smirk, Gard. & Home B. 43, 546, Aug. 1926.

Flower Grower 16: 36, Jan. 1929.

Ind. Dept. Conserv. Div. Ent. R. f. 1927, 37, 1928.

**Machronychus glabratus—Behavior**

West, Ent. News 40, 171-173, 1929.

**Macronychus? spp.**

West, Ann. Ent. Soc. Amer. 22, 704-706, 1929.

**Macrothalthothrips williamsi**

nHood, Psyche 32, 63-64, 1925.

**Macrophya japonica**

Rohwer, J. Wash. Acad. Sci. 15, 482-483, 1925.

**Macrophya simillima**

iZappe, Conn. B. 275, 323-324, 1926.

**Macropogon cribricollis**

nRoss, Can. Ent. 61, 274, 1929.

**Macropogon dubius**

nBrown, Can. Ent. 61, 273-274, 1929.

**Macropsis canadensis**

iOsborn, N. Y. St. Col. For. Tech. Pub. 16, 33, 1922.

**Macropsis rugicollis**

nDozier, Porto Rico Dept. Agr. J. 10: 3 & 4, 264, 1926.

**Macrosargus goliath**

nCurran, Amer. Mus. Nov. 245, 2-3, 1927.

**Macrosiphoniella frugicola**

nGillette & Palmer, Ann. Ent. Soc. Amer. 21, 3-5, 1928.

**Macrosiphoniella sanborni** (Chrysanthemum aphid)\*

Cory & Eaton, Md. B. 308, 421, 1929.

Patch, Maine B. 336, 6-7, 1926.

iSeverin, So. Dak. Ent. R. 15, 13, 1924.

iSoliman, Cal. Univ. Pub. Ent. 4; 6, 136-137, 1927.

Quaintance & Baker, U. S. F. B. 1128, rev. 1926, 24.

**Macrosiphum albifrons** (Lupine aphid), ambrosiae

iSoliman, Cal. Univ. Pub. Ent. 4; 6, 108-113, 1927.

**Macrosiphum audeni, bisensoriatum**

niMacDougall, Pan-Pac. Ent. 2, 165-167, 1926.

**Macrosiphum caricis**

nGlendenning, Can. Ent. 58, 98, 1926.

**Macrosiphum chrysanthemi**

iSoliman, Cal. Univ. Pub. Ent. 4; 6, 114-115, 1927.

**Macrosiphum cornelli**

nGriswold, Ann. Ent. Soc. Amer. 19, 334, 1926; 22; 438-457, 1929.

niGriswold, J. Ec. Ent. 20, 91-94, 1927.

**Macrosiphum erigeronella**

niSoliman, Cal. Univ. Pub. Ent. 4; 6, 115-117, 1927.

**Macrosiphum filifoliae**

niGillette & Palmer, Ann. Ent. Soc. Amer. 21, 5-6, 1928.

**Macrosiphum fuscicornis—B. C.**

niMacDougall, Pan-Pac. Ent. 2, 167-168, 1926.

**Macrosiphum—genus**

Soliman, Cal. Univ. Pub. Ent. 4, 89-94, 1927.

**Macrosiphum glabrum**

niGillette & Palmer, Ann. Ent. Soc. Amer. 21, 2-3, 1928.

**Macrosiphum illinoisense, see Aphis illinoisense**

- Macrosiphum jonesii*, longipes  
nGillette & Palmer, Ann. Ent. Soc.  
Amer. 21, 1-2, 7, 1928.
- Macrosiphum ludoviciana*, madia  
iSoliman, Cal. Univ. Pub. Ent. 4; 6,  
117-119, 127-128, 1927.
- Macrosiphum nigromaculosum*  
niMacDougall, Pan-Pac. Ent. 2, 168-  
169, 1926.
- Microsiphum passerini*  
Soliman, Cal. Univ. Pub. Ent. 4; 6, 94-  
95, 1927.
- Macrosiphum pisi*, see *Illinoia pisi*
- Macrosiphum pyrifoliae*  
niMacDougall, Pan-Pac. Ent. 2, 169-170,  
1926.
- Macrosiphum ribiellum*  
Quaintance & Baker, U.S.F.B. 1128;  
rev. Apr. 1926, 25.
- Microsiphum rosae* (Rose aphid)\*  
Guyton & McCubbin, Pa. Dept. Agr.  
Gen. B. 441, 3-4, 1927.  
Pepper, S. C. Clemson Col. Weekly  
News Notes 14; 38, 1926.  
Severin, So. Dak. Ent. R. 15, 15, 1924.  
iSoliman, Cal. Univ. Pub. Ent. 4; 6,  
119-121, 1927.
- Macrosiphum rudbeckiae* (Goldenglow  
aphid)  
iSoliman, Cal. Univ. Pub. Ent. 4; 6,  
124-127, 1927.
- Macrosiphum solanifolii* (Potato aphid)\*  
iBrittain, N. S. Dept. Nat. Resource B.  
12, 90, 1927.  
iCaesar, Ont. Dept. Agr. B. 325, 58-59,  
1927.  
Compton, Ill. C. 297, 16, 1925.  
Guyton & McCubbin, Pa. Dept. Agr.  
Gen. B. 441, 3-4, 1927.  
iHeadlee, N. J. C. 178, 4-5, 1925.  
Huckett, J. Ec. Ent. 18, 128-132, 1925.  
biPatch, Maine B. 323, 9-15, 1925.  
Schoene, Va. R. 1919-1927, 48, 1928.  
Severin, So. Dak. Ent. R. 15, 15, 1924.  
bShull, Amer. Nat. 59, 289-310, 1925.  
Spittall, Proc. Acadian Ent. Soc. 10,  
60, 1925.  
Webster, No. Dak. B. 194, 58-59, 1926.
- Macrosiphum*—spp. Classification  
Soliman, Cal. Univ. Pub. Ent. 4; 6,  
89-158, 1927.
- Macrosiphum subviride*  
niMacDougall, Pan-Pac. Ent. 2, 170-171,  
1926.
- Macrosiphum taraxaci*  
iSoliman, Cal. Univ. Pub. Ent. 4; 6,  
129-130, 1927.
- Macrosiphum williamsi*  
niGillette & Palmer, Ann. Ent. Soc.  
Amer. 22: 468-470, 1929.
- Macrotheca lecerfalis*  
nBarnes & Benjamin, Pan-Pac. Ent. 2,  
64, 1925.
- Macrotingis biseriata*  
nDrake, Mich. Univ. Mus. Zool. Occ.  
Papers, 190, 4-5, 1928.
- Macrotylus geminus*  
nKnight, Brklyn. Ent. Soc. B. 20, 35, '25.
- Macroyloides symmetricus*  
nKnight, Can. Ent. 60, 235-236, 1928.
- Madiza mattea*  
nCurran, Amer. Mus. Nov. 220, 5-6, 1926.
- Madremyia saundersii*  
Gorham, Proc. Acadian Ent. Soc. 10,  
59, 1925.
- Madrona aphid*, see *Anuraphis madronae*
- Magdalis aenescens*  
Ruhmann, British Columbia Dept. Agr.  
R. 21, N39, 1927.
- Magdalis armicollis* (Reddish elm snout  
beetle)  
Peirson, Me. For. Serv. B. 5, 58, 1927.  
Yetter, Colo. Ent. C. 51, 14, 1926.
- Magdalis barbata* (Black elm snout  
beetle)  
Peirson, Me. For. Serv. B. 5, 58, 1927.
- Magdalis gracilis*  
lEssig, Insects of Western No. Amer.  
1926, 499-500.
- Magdalis lecontei*, spp.  
iKeen, Cal. Dept. Nat. Res. B. 7, 71,  
70-74, 1928.
- Magdicada* n. gen.  
nDavis, J. N. Y. Ent. Soc. 33, 43, 1925.
- Magdicada septendecim*  
bBeamer, Kans. Univ. Sci. B. 18: 227, 1928.  
biGoldstein, Amer. J. Bot. 16, 394-401,  
1929.

- \**Magnolia* scale, *see* *Neolecanium cornuparvum*
- Magulilingia* n. gen.  
nMalloch, P.U.S.N.M. 74: 6, 35-36, 1929.
- Maize billbug, *see* *Sphenophorus maidis*
- Malachius criddlei*  
nBrown, Can. Ent. 60, 146-147, 1928.
- Malachius floricola*  
nMartin, Pan-Pac. Ent. 5, 174, 1929.
- Malacophagula* n. gen., neotropica  
niBequaert, J. Parasitol. 11, 206-211, 1925.
- ‡*Malacosoma americana* (Eastern tent caterpillar)\*  
Bailey, Comm. Agr. Vt. Bien. R. 13, 50-51, 1926.  
Bourne, Mass. Fruit Grow. Assoc. R. 35, 120, 1929.  
Brinley, J. Agr. Res. 33, 177-182, 1926.  
iBrittain, N. S. Dept. Nat. Resource B. 12, 21-22, 1927.  
iBritton & Zappe, Conn. B. 292, 125-126, 1927.  
Brown, Amer. Mus. Nov. 251, 6-7, 1927.  
biCrozier & Stier, J. Gen. Physiol. 11, 803-821, 1928.  
deGryse, Can. Dept. Agr. Ent. Br. Pam. 47, n.s. rev. ed., 11, 1925.  
Felt, N. Y. St. Mus. B. 260, 47, 1925.  
iHamilton, N. J. C. 188, 1926, 8 p.  
Headlee, N. J. R. f. 1926, 174-175, 1927.  
Ladd, N. Y. C. Ext. B. 35, 23-24, 1929.  
iLutz, Nat. Hist. 28, 264-268, 1928.  
Peirson, Me. For. Serv. B. 5, 48-49, 1927.  
Field & Armstrong, Quebec Soc. Protec. Plants R. 17, 76, 1925.  
Pettit, Mich. Ent. R. f. 1926, 17-18.  
Pettit, Mich. St. Bd. Agr. R. 65, 278, 1926.  
Rudolfs, N. J. R. 46, 376-377, 1926.  
bRudolfs, J.N.Y. Ent. Soc. 34, 249-256, 1926; 34, 319-330, 1926; 35, 219-229, 1927; 37, 17-23, 1929.  
Strickland, Can. Ent. 61: 238, 1929.  
iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 11, 1926.
- Malacosoma basale* 255-256, *bellum* 258, *buckleyi* 257-258, *cyaneomaculatum* 255  
nBowditch, Psyche 32, 1925.
- Malacosoma dissidia* (Forest tent caterpillar)\*  
iBrittain, N. S. Dept. Nat. Resource B. 12, 21-22, 1927.  
i deGryse, Can. Dept. Agr. Ent. Br. Pam. 47 n.s., rev. ed., 10, 1925.  
deGryse, Quebec Soc. Protec. Pl. R. 19, 17-18, 1927.  
Hutchings, Quebec Soc. Protec. Pl. R. 18, 115, 1925-1926.  
Peirson, Me. For. Serv. B. 5, 39-40, 1927.  
Peirson, Me. For. Serv. B. 5, 111, 1927.  
Pettit, Mich. St. Bd. Agr. R. 65, 278, 1926.  
Spittall, Proc. Acadian Ent. Soc. 10, 71, 1925.  
iSwaine, Can. Dept. Agr. Ent. Br. C. 1, rev. ed., 6-10, 1918.  
iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 10-11, 1926.
- Malacosoma fragilis* (Great Basin tent caterpillar)  
Van Dyke, Pac. Coast Ent. Soc. Proc. 2: 8, 115, 1929.  
Van Dyke, Pan. Pac. Ent. 5, 92, 1929.
- Malacosoma guttatum* 256, *maculatum* 259-260, *octoguttatum* 258-259, *quadripustulatum* 256, *rosenbergi* 257, *simile* 258  
nBowditch, Psyche 32, 1925.
- Malacosoma* sp.  
biCrozier and Stier, J. Gen. Phys. 11, 803-821, 1928.  
Oreg. R. 1922-1924, 77, 1924.
- Malaria**  
iChandler, Animal Parasite ed. 3, 154-156, 1925.  
Ferrell, So. Med. J. 18, 466, 1925.  
Hoffman, N. J. Mosquito Exterm. Assoc. Proc. 13, 59-68, 1926.
- Malaria—Avian**  
iTaliferro, J. Preventive Med. 2; 6, 525-540, 1928; 3; 3, 197-223, 1929.
- Malaria—Brazil**  
iBoyd, Am. J. Hyg. Monog. ser. 5, May 1926, 261 p.  
bDavis, Am. J. Hyg. 6, 119-138, 1926.
- Malaria control**  
Barber, U. S. Pub. Health R. 44, 2048-2057, 1927.

**Malaria control** *Cont'd*

- biBascom, Med. Dept. U. S. Army World War 6, 305-339, 1926.  
 Branham, Fla. Ent. 9, 17-24, 1925.  
 Carter & LePrince, Internat. Conf. Health Problems Trop. Amer. Proc. 1, 165-168, 1924.  
 bDeeks, South. Med. J. 19; 5, 363-367, 1926.  
 Deeks, United Fruit Co. R. 14, 170-186, 1926.  
 Deeks, United Fruit Co. Med. Dept. R. 17, 94-96, 1928.  
 Dunham, Military Surg. 62, 33-38, 1928.  
 Hovenberg & LePrince, South. Med. J. 19; 5, 371-373, 1926.  
 iKligler, Jr. Preventive Med. 1, 149-183, 1926.  
 LePrince, Municipal & County Engineering 67, 231, 1924.  
 iLePrince, Nation's Health 7; 6, 399, 1925.  
 bLePrince, Pub. Health R. 41, 1220-1226, 1926.  
 Mandry, P. R. Health Rev. 3; 7, 279-286, 1928.  
 Rankin, So. Med. J. 18, 462-465, 1925.  
 bStuart, U. S. Naval Med. B. 25, 996-1010, 1927.  
 Vincent, Rockefeller Found. Rev. f. 1925, 19-12, 1926.  
 Welch, South. Med. J. 18, 458-460, 1925.  
 i—III. Central Railroad Syst. Malaria 1926, 20 p.  
 — No. Carolina St. Bd. Health, Bien. R. 20, 37-44, 1924.  
 — P. R. Health Rev. 2; 6, 19-24, 1926.  
 P. R. Rev. Pub. Health 3; 6, 240-246, 1927.  
 — P. R. Rev. Pub. Health 3; 7, 279-286, 1928.  
 — P. R. Rev. Pub. Health, 3; 8, 321-330, 1928.  
 — P. R. Rev. Pub. Health 3; 9, 376-385, 1928.  
 — Rockefeller Found. Internat. Health Bd. R. 11, 73-84, 1925.  
 i—Rockefeller Found. Internat. Health Bd. R. 12, 70-96, 1926.  
 — Science 68, 582-583, 1928.  
 — U. S. Pub. Health R. 43, 2957-2961, 1928.

**Malaria control—Ala.**

- Welch, South. Med. J. 18; 6, 467-469, 1925; 19; 5, 397-399, 1926; 20; 6, 482, 1927; 21; 9, 770-771, 1928.

**Malaria control—Ark.**

- Bair, South. Med. J. 18; 6, 469, 1925; 21; 9, 771, 1928; 22, 404, 1929.  
 Garrison, So. Med. J. 19; 5, 399-400, 1926.  
 — J. Amer. Med. Assoc. 85, 1228, 1925.

**Malaria control—Calif.**

- Lenert, South. Med. J. 18; 6, 479-480, 1925.

**Malaria Control—Dutch East Indies**

- biWelch, South. Med. J. 18, 434-438, 1925.

**Malaria control—Fla.**

- Arms, So. Med. J. 21; 9, 772, 1928.  
 Brink, South. Med. J. 19; 5, 400, 1926.  
 bFilby, So. Med. J. 22, 405, 1929.

**Malaria control—Ga.**

- Abercrombie, So. Med. J. 20; 6, 483, 1927.  
 Abercrombie, So. Med. J. 22, 405, 1929.  
 Clarkson, So. Med. J. 21; 9, 773, 1928.  
 Fort, South. Med. J. 18; 6, 469-470, 1925.

**Malaria Control—Ill.**

- Dappert, Amer. J. Pub. Health 16, 750-751, 1926.  
 Van Hovenberg, Rock Island, Mag. 24; 9, 16-17, 1929.  
 Rawlings, So. Med. J. 18, 480-482, 1925.  
 Rawlings, South. Med. J. 19; 5, 407, 1926.

**Malaria control—Italy**

- ibHackett, Tr. Roy. Soc. Trop. Med. & Hyg. 22, 477-499, 1929.

**Malaria control—Ky.**

- McCormack, So. Med. J. 21; 9, 772-773, 1928; 22, 405, 1929.

**Malaria control—La.**

- Dowling, So. Med. J. 18, 470, 1925; 19; 5, 400-401, 1926; 20; 6, 484, 1927; 22, 406, 1929.

**Malaria control—Miss.**

- Coogle, So. Med. J. 21; 9, 738-747, 1928.  
 Underwood, South. Med. J. 18; 6, 471-473, 1925; 19; 5, 401-402, 1926; 20; 6, 483-484, 1927; 21; 9, 773-775, 1928; 22, 406-407, 1929.

**Malaria control—Mo.**

- Enloe, So. Med. J. 18, 474-475, 1925.  
 Petty, So. Med. J. 22, 408, 1929.  
 Stewart, South. Med. J. 19; 5, 402, 1926.

**Malaria control—N. C.**

- Hayne, South. Med. J. 19; 5, 403, 1926.
- iLaughinghouse, So. Med. J. 22, 408-410, 1929.
- Rankin, So. Med. J. 18, 475, 1925.
- iTaylor, So. Med. J. 20; 6, 484, 486, 1927.
- Nation's Health 7; 4, 286, 1925.

**Malaria control—Okla.**

- Puckett, So. Med. J. 20; 6, 486-487, 1927.

**Malaria control—Olongapo**

- Stuart, U. S. Naval Med. B. 25, 996-997, 1927.

**Malaria control—Panama**

- Barber, et al, United Fruit Co. Med. Dept. R. 17, 34-45, 1928.

**Malaria control—Porto Rico**

- Earle, P. R. Health Rev. 1; 12, 3-7, 1926.
- P.R. Health Rev. 1; 9, 26-33, 1926.

**Malaria control—Preston division**

- Malaret, United Fruit Co. Med. Dept. R. 17, 83-94, 1928.

**Malaria control—Rock Island**

- van Hovenberg, Rock Island Mag. 24; 9, 16-17, 1929.

**Malaria control—South**

- Hamilton, So. Med. J. 22, 410, 1929.
- Hayne, So. Med. J. 18, 475-476, 1925; 19; 5, 403-404, '26; 21; 9, 775-776, '28.
- iVan Hovenberg, Nation's Health 8, 88, 1926.

**Malaria control—Tenn.**

- Bishop, South. Med. J. 19; 5, 404, 1926; 21; 9, 776-777, 1928; 22, 410, 1929.
- Crittenden, So. Med. J. 18, 476-477, 1925.
- Johnson, So. Med. J. 21; 9, 780, 1928.
- LePrince, So. Med. J. 20; 6, 480-482, 1927; 21; 9, 778-779, 1928.

**Malaria control—Texas**

- Anderson, So. Med. J. 21; 9, 777, 1928.
- Duggan, So. Med. J. 18, 477-478, 1925.
- Sappington, So. Med. J. 19; 5, 406, 1926.

**Malaria control—Va.**

- bBascom, Med. Dept. U. S. Army World War 6, 340-348, 1926.
- Garton, U. S. Naval Med. B. 26, 747-754, 1928.
- Grant, So. Med. J. 21; 9, 777-778, 1928.
- Grant, So. Med. J. 22, 411, 1929.
- Williams, So. Med. J. 18, 478-479, 1925; 19; 5, 405-406, 1926.

**Malaria—Entomological research**

- Darling, South. Med. J. 18, 446-449, 1925.
- King, South. Med. J. 18, 444, 1925.

**Malaria—Guatemala**

- Barber, Komp & Clark, United Fruit Co. Med. Dept. R. 13, 213, 1924.

**Malaria—Haiti**

- iButler & Peterson, U. S. Naval Med. B. 25, 278-288, 1927.
- Wilson, U. S. Naval Med. B. 26, 320-323, 1928.

**Malaria—History in U. S.**

- Barber, U. S. Pub. Health R. 44, 2575-2587, 1929.

**Malaria—Imported to Miss.**

- Barber, U. S. Pub. Health R. 42, 1368-1370, 1927.

**Malaria—Impounded Waters**

- Gage, U. S. Pub. Health R. 40, 2211-2219, 1925.

**Malaria—Increase by civilization**

- Howard, Science 67, 136, 1928.

**Malaria—India**

- Science 70, 160, 1929.

**Malaria—Italy**

- iBlanchard, Sci. Mo. 27, 172-176, 1928.

**Malaria—Island of Jamaica**

- ibBoyd & Aris, Amer. J. Trop. Med. 9, 309-399, 1929.

**Malaria—Malaya**

- Heger, So. Med. J. 18, 438-440, 1925.

**Malaria—Medical research**

- Hegner, South. Med. J. 18, 438-440, 1925.

**Malaria—Miss.**

- bBarber, Komp & Hayne, So. Med. J. 19; 5, 373-377, 1926.
- Barber & Komp, U. S. Pub. Health R. 44, 2156-2162, 1929.

**Malaria personnel—Training facilities**

- Fricks, South. Med. J. 18, 460-462, 1925.

**Malaria—Olongapo**

- Robbins, U. S. Naval Med. B. 26, 451-461, 1928.

**Malaria—Palestine**

- bKligler, Am. J. Hyg. 6, 431-449, 1926.

**Malaria parasites—Types of**

- Barber, U. S. Pub. Health, R. 44, 2048-2057, 1927.
- Amer. J. Pub. Health 16, 620-621, 1926.

**Malaria—Plasmochin**

Brosius, United Fruit Co. Med. Dept.  
R. 17, 51-63, 1928.

**Malaria—Porto Rico**

Arbona, P. R. Health Rev. 1; 10, 3-6, 1926.

Earle, P. R. Health Rev. 1; 4, 12-18, 1925.

Pastor, P. R. Health Rev. 2; 7, 30-33, 1927.

— P. R. Health Rev. 1; 5, 31-33, 1925;  
1; 12, 3-7, 1926; 2; 4, 8-14, 1926;  
2; 5, 22-28, 1926; 2; 6, 15-18, 1926;  
2; 7, 30-33, 1927; 2; 8, 23-33, 1927;  
2; 9, 19-24, 1927; 2; 10, 27-32, 1927;  
2; 11, 29-37, 1927; 2; 12, 25-31, 1927;  
3; 1, 26-31, 1927.

**Malaria—Slowness of elimination**

LePrince, N. Orleans, Med. & Surgical  
J. 79, 420-422, 1926.

**Malaria—South**

Ferrell, So. Med. J. 18; 6, 432-434, 1925.

**Malaria—Southwestern U. S.**

Barber, U. S. Pub. Health R. 44, 1300-1315, 1929.

**Malaria—Symposium on**

Cumming, So. Med. J. 20; 6, 460-462, 1927.

— So. Med. J. 22; 4, 357-411, 1928.

**Malaria—Tela Railroad survey**

Clark, United Frt. Co. R. 14, 187-196, 1926.

**Malaria—Uncontrolled areas**

Kligler & Reitler, J. Preventive Med. 2;  
5, 415-432, 1928.

Kligler & Liebman, J. Preventive Med.  
2; 5, 433-440, 1928.

**Malaria & Agricultural land**

Pardi, Scientific Agr. 6, 129, 1925.

**Malaria & Blackwater fever**

— United Fruit Co. Med. Dept. R.  
15, 47-48, 1926.

**Malaria & Civilization**

Bass, So. Med. J. 19, 851-856, 1926.

**Malaria & the Cotton Belt Railway**

VanHovenberg, Railway Eng. & Maintenance 22, 382-390, 1926.

**Malaria & Sugar cane**

— P. R. Health Rev. 2; 6, 15-18, 1926.

**\* Malarial mosquito, see *Anopheles maculipennis******Malloch* *strigosa***

nCushman, PUSNM 74; 10, 15, 1929.

***Mallochiella orillia*, spp.**

nCurran, Can. Ent. 59, 49-50, 1927.

***Mallochiomyia* n. gen.**

Townsend, Ins. Insc. Mens. 14, 25, 1926.

***Malloodon dasytomus***

Ragot, J. N. Y. Ent. Soc. 36, 106, 1928.

***Mallonotum brevicornis***

nAldrich, Ann. Ent. Soc. Amer. 18, 467, 1925.

***Mallophaga***

iFernald, Applied Ent. ed. 2, 162-164, '26.

biPeters, Ohio J. Sci. 28, 215-228, 1929.

Wilson, Can. Ent. 60, 27-28, 1928.

***Mallophaga* collection in U. S. Nat. Mus.**

Ewing, Proc. Ent. Soc. Wash. 28, 70b, 1926.

***Mallophora albicincta***

nBromley, Psyche 36, 47, 1929.

***Mallophora bruneri***

nBromley, Ann. Ent. Soc. Amer. 22, 287-288, 1929.

***Mallophora chrysomela***

nBromley, Psyche 32, 193, 1925.

Cresson, Psyche 33, 91, 1926.

***Mallophora pulchella***

nCurran, Trans. Amer. Ent. Soc. 51, 260-261, 1925.

***Mallophora rex***

nBromley, Psyche 32, 192, 1925.

Cresson, Psyche 33, 91, 1926.

***Mallosphora* sp.—habits**

Bromley, J.N.Y. Ent. Soc. 36, 303, 1928.

***Mallota aberrans, inversa, nigra***

nShannon, P.U.S.N.M. 70; 9, 16-17, '27.

***Mallota salti***

nCurran, Ann. Ent. Soc. Amer. 22; 499-500, 1929.

***Malmis interlineata***

nDyar, Proc. Ent. Soc. Wash. 30, 10, 1928.

***Malocampa bronacha* 31, *mammerta* 29-**

30, *medommoca* 29, *randauta* 30.

nSchaus, P.U.S.N.M. 73; 19, 1928.

***Malometasternum*—n. gen., *scutellaris***

nShannon, Proc. Ent. Soc. Wash. 29, 86, 1927.

***Mamestra picta*, see *Ceramica picta******Man* vs. insects**

iFrazer, Sat. Eve. Post 200, 16-17, Ja. 7, 1928.

iHoward, Sci. Amer. 136, 114-116, 1927.

- iWisehart, Am. Mag. 105, 14-15, Mar. '28.  
 Sci. Amer. 141, 109, 1929.
- Mange, *see* *Sarcoptes scabiei*
- Mango—Insects  
 Hawaii B. 58: 12-14, 1929.
- Mango fruit fly, *see* *Dacus ferrugineus*
- \*Mango seed weevil, *see* *Sternonchestus mangifera*
- Mango twig borer, *see* *Euclea capito*
- Manna  
 Darlington, Open Court 42, 372-381, 1928
- Mansonia (*Mansonioides*) *annulata*  
 Dyar & Shannon, Ins. Insc. Mens. 13, 84, 1925.
- Mansonia *fasciolatus*  
 Beyer, La. St. Bd. Health Quar. B. 16: 3, 150-151, 1925.
- Mansonia *humeralis*  
 Dunn, Amer. J. Trop. Med. 9, 499, '29.
- Mansonia *indubitans*  
 nDyar & Shannon, J. Wash. Acad. Sci. 15, 41, 1925.
- Mansonia *perturbans*  
 iBeyer, La. St. Bd. Health Quar. Bul. 16: 2, 149-151, 155, 1925; B. 16: 3, 149-150, 1925.  
 Felt, N. Y. St. Mus. B. 274, 30, 1928.  
 Hearle, Nat. Res. Council Canada R. 17, 57-58, 1926.  
 Van Derworker, Union Co. N. J. Mos. Exterm. Assoc. R. f. 1929, 22.  
 iWalker, La. St. Bd. Health Quar. B. 16: 1, 155, 1925.
- Mansonia spp. 24, spp.—key 149, subgen-  
 era 40; iDyar, Ins. Insc. Mens. 13, 1925.
- Mansonia *titillans*  
 Chamberlain, Panama Canal Health R. f. 1926, 21; R. f. 1927, 19.  
 Dunn, Amer. Jr. Trop. Med. 9, 498-499, 1929.
- Mantis *religiosa* (European praying  
 mantis)  
 iMiddleton, Nature Mag. 6: 2, 89-90, August 1925.  
 Thone, Sci. News Letter, 16: 240, 1929.
- Mantispa *brunnea, interrupta*  
 Johnson, Psyche 32, 318, 1925.
- Mantoida *maya*  
 Hubbell, Fla. Ent. 9, 41-42, 1925.
- Mantura *floridana*  
 Brisley, Trans. Amer. Ent. Soc. 51, 178, 1925.
- Maple and oak twig pruner, *see* *Hyper-  
 mallus villosus*
- Maple bladder gall, *see* *Phyllocoptes  
 quadripes*
- Maple insects  
 Peirson, Me. For. Serv. B. 5, 88-89, 1927.
- Maple leaf cutter, *see* *Paraclemensia  
 acerifoliella*
- Maple nepticula, *see* *Nepticula serico-  
 peza*
- Maple sesian, *see* *Aegeria acerni*
- Maple twig borer, *see* *Proteoteras wil-  
 lingana*
- Maquilingia *facialis, hirticeps*  
 nMalloch, P.U.S.N.M. 74: 6, 36-37, 1929.
- Marasmia *trapezalis*  
 Wolcott, J. Ec. Ent. 18, 422, 1925.  
 Wolcott, J. Ec. Ent. 22, 268-269, 1929.
- Marchalina *azteca, hellenica*  
 niFerris, Can. Ent. 57, 229-230, 1925.
- Marchalinini—n. tribe  
 nMorrison, Proc. Biol. Soc. Wash. 40, 102, 1927.
- Marconoctua *onusta* (Iris borer)  
 niMcDaniel, Mich. B. 173, 21-23, 1928.
- Margarodes *meridionalis*  
 nMorrison, Proc. Biol. Soc. Wash. 40, 102, 1927.
- Margarodidae—n. fam.  
 Morrison, Proc. Biol. Soc. Wash. 40, 99-110, 1927.
- biMorrison, U.S.D.A. Tech. B. 52, 1928, 239 p.
- Margaronia, *see* *Diaphania*
- Margaropus *annulatus* (Cattle tick)\*  
 iBague, Rev. Agr. Puerto Rico 12: 139-145, 1919.  
 iBishopp, Farm & Ranch 44; 13, 3, 1925.  
 iBrink, Farm & Ranch 44; 10, 3, 1925.  
 Bux, Amer. Vet. Med. Assoc. J. 70, (n.s. 23), 746-750, 1927.  
 iChandler, Animal Parasites, ed. 3, 356, 1925.  
 Clark & Zetek, Amer. J. Trop. Med. 5, 18-19, 1925.  
 iCooper, Fla. Grower 34; 14, 3-4, 1926.  
 de Kruif, Country Gent. 91, 18-19, 1926.



**Margaropus annulatus** *Cont'd*

- iEllenberger & Chapin, U.S.F.B. 1057  
rev. Oct. 1926, 20 p.  
Fernald, Applied Ent. ed. 2, 381, 1926.  
Iverson, Cal. Agr. B. 14, 225-226, 1926.  
Jones, La. Dairym. 2; 5, 13-14, 1928.  
Jones, La. Dairym. 2: 6, 17-18, 1929.  
Jones, South. Dairym. 2; 7, 1, 1929.  
Leach, Fla. Grower 25: 7, 6, 1927.  
iLevine, Hoard's Dairym. 68, 122, 123,  
141, 1924.  
iMacKellar, USDA, BAI Pub. Oct.  
1929, 15 p.  
Miller, Ohio B. 386, 128-129, 1925.  
iMohler, U.S.D.A. B. 569, rev. 1928, 26 p.  
Mohler, U.S.D.A. Leaf. 51, 1929, 8 p.  
Pennock, Hoard's Dairym. 71, 702-703,  
1926.  
Smartt, Fla. Grower 34; 17, 4, 1926.  
iStone, Ill. Bur. Farm. 5; 1, 10, 1929.  
iStone, Bur. Farm. Ohio ed. 5; 1, 10-11,  
1929.  
T. G. S., Fla. Grower 31; 24, 7, 1925.  
Van Es, Capper's Farm. 40; 8, 24, 1929.  
Walker, Fla. Grower 34: 14, 6, 1926.
- Margaropus annulatus & Piroplasma**  
Rawson, J. Am. Vet. Med. Assoc. 74:  
7, 1032, 1929.
- Margaropus annulatus australis** (Tropi-  
cal cattle tick)  
Clark & Zetek, Internat. Confer. on  
health problems. Trop. Amer. Proc.  
f. 1924, 986-995.
- Margaropus australis**  
Clark & Zetek, Amer. J. Trop. Med. 5,  
19, 1925.  
Dunn, Amer. J. Trop. Med. 9, 507, 1929.
- Margaropus decoloratus**  
Rawson, J. Am. Vet. Med. Assoc. 74:  
7, 1027-1039, 1929.
- Margaropus microplus**  
Bequaert, Harvard Inst. Trop. Biol. &  
Med. Cont. 4, 168-174, 1926.
- Margathea buitenzorgensis**  
niCaudell, P.U.S.N.M. 71; 3, 12-14, 1928.
- \***Margined blister beetle**, *see* *Epicauta*  
*cinerea marginata*
- Marguerite leaf miner**, *see* *Phytomyza*  
*chrysanthemi*

**Margus repletus**

- nVan Duzee, Proc. Cal. Acad. Sci. ser.  
4, 14; 17, 393, 1925.
- Marietta mexicana**  
iSmith & Compere, Cal. Univ. Pub.  
Ent. 4, 269-270, 1928.
- Maritime earwig**, *see* *Anisolabis mari-*  
*tima*
- Marmara arbutiella**  
Needham, Frost & Tothill, Leaf-min-  
ing insects, 129-130, 1928.
- Marshallella**—n. gen., *rubripes*  
nGoding, J. N. Y. Ent. Soc. 35, 168-170,  
1927.
- Marthula cynrica, thoreda**  
nSchaus, P.U.S.N.M. 73; 19, 9-10, 1928.
- Maruca testulalis**  
J. Ec. Ent. 18, 654, 1925.  
U.S.D.A., F.H.B., S.R.A., 82, 17-18, 46-  
49, 1925; 83, 45-46, 1925; 85, 103-  
104, 1925.
- Maruina nuda**  
nDyar, Ins. Insc. Mens. 14, 111, 1926.
- Masariidinae**  
Bequaert, Psyche, 36, 76-88, 364-369,  
1929.
- Masicera arator**  
niAldrich, P.U.S.N.M. 66: 18, 32-33, 1925.
- Masicera festineus**  
Gorham, Proc. Acadian Ent. Soc. 10,  
59, 1925.
- Masicera senilis**  
Breakey, Ann. Ent. Soc. Amer. 22, 462,  
1929.  
Cole, Ent. News 40, 225, 1929.  
Jones, U.S.D.A. Tech. B. 88, 2, 1929.
- Masiphya confusa**  
nAldrich, Ann. Ent. Soc. Amer. 18, 109,  
1925.
- \***Masked hunter**, *see* *Reduvius person-*  
*atus*
- Mastigoproctus giganteus** (Vinegarone,  
or Giant whip scorpion)  
Ewing, Am. J. Pharm. 100, 535, 1928.  
iEwing, Amer. Jour. Trop. Med. 8, 41-  
43, 1928.  
Ewing, U. S. Naval Med. B. 26, 607, 1928.
- Mastixis rilmela**  
nDyar, Ins. Insc. Mens. 14, 185-186, 1927.

**Mastotermes darwiniensis**

Jarvis, Facts about Sugar, 20, 467, 1925.  
Snyder, J. Wash. Acad. Sci. 16, 105, 1926.

**Matsucoccini—n. tribe**

nMorrison, Proc. Biol. Soc. Wash. 40, 101, 1927.

**Matsucoccus fasciculensis**

Keen, Cal. Dept. Nat. Resources B. 7, 89, 1928.

**Maxwell-Lefroy, Harold—1877-1925**

W. A., J. Ec. Ent. 19, 673-674, 1926.

**May beetles, see Phyllophaga**

**Mayetiola destructor, see Phytophaga destructor**

**Mayridia americana**

niTimberlake, PUSNM 69; 3, 28-33, '26.

**Mazax segregata**

nChamberlin, B. Harvard Mus. Comp. Zool. 67, 221-222, 1925.

**\*Meadow plant bug, see Miris dolabratus**

**Meadow-sweet leaf beetle, see Galerucella spiraeae**

**\*Mealmoth, see Pyralis farinalis**

**Meal snout moth, see Pyralis farinalis**

**Mealy Bug Act—New**

Citrus Leaves 5; 6, 8, 1925.

**\*Mealy plum aphid, see Hyalopteris arundinis**

**Mealybugs**

Armitage, Cal. Cit. 10, 160, 1925.  
Armitage, Citrus Leaves 6; 4, 14-15, 1926.  
Armitage, Cal. Cult. 69, 451, 1927.  
Armitage, Cal. Cit. 13, 176, 1928.  
Armitage, Cal. Agr. Mo. B. 18, 567, 1929.  
Bascom, Cal. Cult. 68, 173, 1927.  
Brock, Cal. Cult. 67, 549, 1926.  
Brock, Cal. Dept. Agr. Mo. B. 18, 369, 1929.  
DeOng, Knight & Chamberlin, Hilgardia 2, 376-377, 1927.  
Doane, Pan-Pacific Ent. 2, 213-214, 1926.  
Fernald, Applied Ent. ed. 2, 220-222, 1926.  
Ferris, Cal. Agr. B. 16, 336-342, 1927.  
Gardner, J. Ent. & Zool. 18, 57-58, 1926.  
Herrick, Rur. N. Y. 84, 1432, 1925.  
Niles, Citrus Industry, 4; 8, 7, 1923.  
iSeverin, So. Dak. Ent. R. 15, 33-37, 1924.  
Smith, Citrus Leaves 5; 8, 1-2, 1925.

Smith, Citrus Leaves; 9: 7, 12-13, 1929.  
Stahl & Scaramuzza, Trop. Pl. Res. Found. B. 10, 4-8, 1929.

Tubbs, Cal. Cult. 70, 256, 1928.

Watson, Citrus Industry 3; 3, 16, 1922.

Watson, Fla. Grower 34: 20, 20-21, 1926.

Watson, Fla. P. B. 392, 1926, 2 p.

Amer. Florist, 68; 2029, 12, 1927.

Cal. Cult. 64, 485, 1925.

Cal. Cult. 70, 489, 1928.

Cal. Cult. 73; 1, 6, 1929.

Citrus Leaves, 4: 6; 7, 1924.

Citrus Leaves, 8; 8, 9, 1928.

Pac. Rur. Press. 118, 674, 1929.

Science 63: 1639, xiv, 1926.

**Mealybugs—Parasites**

Illingworth, Pineapple News 2: 8, 123, 1928.

iSmith, Cal. Citrograph, 14; 5, 1928.

Planter & Sugar Mfg. 83; 26, 16, 1929.

**Mealy flata, see Ormenis pruniosa**

**Measuring worm**

Talbert, Fruit Belt 21; 1, 7, 1923.

**Mecistocephalus maxillaris**

Pemberton, Facts about Sugar 22, 275, 1925.

iVan Zwaluwenburg, Assoc. Hawaiian Sugar Tech. R. 5, 21, 1926.

**Mecomycet liebecki**

nBlaisdell, Pan. Pac. Ent. 6: 23-25, 1929.

**Mecostethus**

ilMcClung, J. Morph. & Phys. 43: 2, 181-265, 1927.

**Mecostethus gracilis**

McClung, Penn. Univ. Zool. Lab. Cont. 27: 20, 503-528, 1928.

**Medeterus albosetosus**

nVan Duzee, Psyche 35, 36-37, 1928.

**Medeterus aldrichii**

Keen, Cal. Dept. Nat. Res. B. 7, 92-93, 1928.

**Medeterus bella**

niVan Duzee, P.U.S.N.M. 74; 10, 34, 1928.

**Medeterus ciliata**

nVan Duzee, Psyche 35, 37-38, 1928.

**Medeterus crassivenus**

nbCurran, N. Y. St. Mus. B. 274, 199-200, 1928.

**Medeterus emarginatus**

Van Duzee, Psyche 32, 180, 1925.

- Medeterus flaviseta*  
niVan Duzee, P.U.S.N.M. 74; 10, 37, 1928.
- Medeterus furcatus*  
nbCurran, N. Y. St. Mus. B. 274, 200-201, 1928.
- Medeterus intermedia*  
nVan Duzee, Can. Ent. 60, 40, 1928.
- Medeterus longinervis*  
nVan Duzee, Psyche 35, 36, 1928.
- Medeterus minimus*  
nVan Duzee, Psyche 32, 180, 1925.
- Medeterus pallidicornis*  
niVan Duzee, P.U.S.N.M. 74; 10, 36, 1928.
- Medeterus pollinosa*, *scaura*  
niVan Duzee, PUSNM 74, 10, 34-35, '28.
- Medeterus simplicipes*  
nbCurran, N. Y. St. Mus. B. 274, 202-203, 1928.
- Medeterus*—Species table of N. A.  
Van Duzee, Psyche 35, 38-43, 1928
- Medeterus vanduzeei*  
nbCurran, N. Y. St. Mus. B. 274, 203-204, 1928.
- Medeterus varipes*  
niVan Duzee, PUSNM 74; 10, 36-37, '28.
- Medeterus venatus*  
nbCurran, N. Y. St. Mus. B. 274, 201, 202, 1928.
- Medfly**, *see* *Ceratitis capitata*
- Medical Entomology**  
Bequaert, Harvard Inst. Trop. Biol. & Med. Cont. 4, 157-257, 1926.  
Howard, Amer. Nat. 61, 137-179, 1927.  
iMetcalf & Flint, Dest. & usef. ins. 824-860, 1928.  
Reasoner, Vet. Med. 21, 175-181, 1926.  
Riley, Ann. Ent. Soc. Amer. 22, 136-141, 1929.  
biRoot, et al, Animal Parasitol. 1929, 461-638.  
Rosenau, Preventive Med. ed. 5, 260-380, 1927.  
Sherwood, Military Surgeon 60, 581-587, 1927.  
Stiles & Hassall, Hyg. Lab. B. 150, 291-408, 1928.
- \***Mediterranean flour moth**, *see* *Ephestia kuehniella*
- \***Mediterranean fruit fly**, *see* *Ceratitis capitata*
- Megacercopis*, new gen., *optima*—Siberia  
Cockerell, PUSNM 68; 5, 9, 10, 1925.
- Megacerus alternatus*  
nBridwell, Pr. Ent. Soc. Wash. 31, 113-114, 1929.
- Megachile abducta*  
nMitchell, Trans. Amer. Ent. Soc. 52, 111-113, 1926.
- Megachile amaguensis*  
niCockerell, PUSNM 68; 5, 7-8, 1925.
- Megachile audax*  
Mitchell, Trans. Amer. Ent. Soc. 52, 118, 1926.
- Megachile austinensis*  
nMitchell, Psyche, 34, 105, 1927.
- Megachile bahamensis*  
nMitchell, Psyche 34, 47-48, 1927.
- Megachile beniensis*  
nCockerell, PUSNM 71; 12, 19-20, 1928.
- Megachile brimleyi*  
nMitchell, Trans. Amer. Ent. Soc. 52, 114-116, 1926.
- Megachile campanulae*  
Rau, St. Louis Acad. Sci. Tr. 25, 202, 1927.
- Megachile carlotensis*  
nMitchell, Psyche 34, 55-57, 1927.
- Megachile chapadiana*, *dilatata*  
niMitchell, Trans. Amer. Ent. Soc. 54, 344-349, 1928.
- Megachile hilli*, *ignescens*  
Cockerell, Amer. Mus. Novit. 346, 6, 16, 1929.
- Megachile inimica*  
nMitchell, Psyche 34, 109, 1927.
- Megachile intergrella*  
nMitchell, Trans. Amer. Ent. Soc. 52, 116-117, 1926.
- Megachile intergradus*  
niMitchell, Trans. Amer. Ent. Soc. 54, 339-341, 1928.
- Megachile ivonensis*  
nCockerell, PUSNM 71; 12, 15-16, 1928.
- Megachile laurita*  
nMitchell, Psyche 34, 115, 1927.
- Megachile leucopogon*  
nCockerell, Amer. Mus. Nov. 346, 6, '29.
- Megachile leucostomella*  
nCockerell, P.U.S.N.M. 71; 12, 20, 1928.

- Megachile mendica*  
nMitchell, Psyche 34, 113, 1927.
- Megachile microsoma*  
nCockerell, PUSNM 71; 12, 14-15, 1928.
- Megachile oenotherae*  
Mitchell, Trans. Amer. Ent. Soc. 52, 118, 1926.
- Megachile poeyi*  
nMitchell, Psyche 34, 48-51, 1927.
- Megachile pruina*  
nMitchell, Psyche 36, 93-94, 1929.
- Megachile pseudonigra*  
nMitchell, Psyche 34, 112, 1927.
- Megachile remotissima*  
nCockerell, Pan-Pac. Ent. 3, 86-87, 1926.
- Megachile rubi*  
Mitchell, Trans. Amer. Ent. Soc. 52, 117, 1926.
- Megachile salti*  
nMitchell, Psyche 34, 51-54, 1927.
- Megachile sejuncta, semota*  
nCockerell, P.U.S.N.M. 71; 12, 20-22, 1928.
- Megachile sp.*  
Mitchell, N. C. R. 50, 112, 1927.  
ibMitchell, Trans. Amer. Ent. Soc. 54, 321-383, 1928.  
Schwarz, Nat. Hist. N. Y. 26, 161, 1926.
- Megachile spokanensis*  
nMitchell, Psyche 34, 109, 1927.
- Megachile subexilis*  
bHicks, Ent. News 38, 17-21, 1927.
- Megachile tapytensis*  
niMitchell, Trans. Amer. Ent. Soc. 54, 335-337, 1928.
- Megachile tenuicincta*  
nAmer. Mus. Novit. 346, 7, 1929.
- Megachile tephrosiana*  
nMitchell, Psyche 34, 179-181, 1927.
- Megachile tricola*  
nCockerell, P.U.S.N.M. 71; 12, 21, 1928.
- Megachile uniformis*  
niMitchell, Trans. Amer. Ent. Soc. 54, 349-351, 1928.
- Megachile vandykei*  
nCockerell, Proc. Cal. Acad. Sci. ser. 4, 14; 11, 205, 1925.
- Megachile virginiana*  
nMitchell, Trans. Amer. Ent. Soc. 52, 113-114, 1926.
- Megachile wheeleri*  
nMitchell, Psyche 34, 107, 1927.
- Megachile xantholeuca*  
nCockerell, P.U.S.N.M. 71; 12, 14, 1928.
- Megachilidae—Bolivia*  
Cockerell, P.U.S.N.M. 71: 12, 1927, 22 p.
- Megachilochalcis marginatipennis*  
nGirault, Ins. Insc. Mens. 14, 72-73, 1926.
- Megachiloides umatillensis*  
nMitchell, Psyche 34, 118, 1927.
- Megaloceroea curta* 247-248, *hirsuta* 248-249, *letcheri* 250-251, *punctata* 249-250; nKnight, Ent. News 39, 1928.
- Megalodontes siberiensis*  
nRohwer, P.U.S.N.M. 68, Art. 8, 1-2, 1925.
- Megalomyrmex symmetochus*  
ibWheeler, Biol. Bul. 49, 168-171, 1925.
- Megalopalpus gymna*  
Clark, Smith Inst. R. f. 1925, 456, 1926.
- Megalopsallus*—n. gen. 224-228, *adustus* 227-228, *atriplicis* 224-225, *brittoni* 227, *latifrons* 226, *Species—key* 228  
Knight, Ann. Ent. Soc. Amer. 20, 1927.
- Megalopyge guaya, incachaca*  
nSchaus, Proc. Ent. Soc. Wash. 29, 106-107, 1927.
- Megalopyge opercularis* (Puss caterpillar)  
Beyer, Nation's Health 8, 409, 1926.  
Schoene, Va. St. Crop Pest. Com., Quar. B. 7: 4, 27-28, 1926.  
Watson, Fla. B. 183, 404, 1926.  
Fla. Ent. 9, 45-46, 1925.
- Megalopyge partheniata*  
niDyar, Proc. Ent. Soc. Wash. 30, 10, 1928.
- Megalopyge sevarina*  
nSchaus, Proc. Ent. Soc. Wash. 29, 107, 1927.
- Megalopyge sp. and disease*  
Bequaert, Harvard Inst. Trop. Biol. & Med. Cont. 4, 192-193, 1926.
- Megalopyge victoriana*  
nSchaus, Proc. Ent. Soc. Wash. 29, 107, 1927.
- Megalothrips picticornis*  
nHood, Proc. Biol. Soc. Wash. 40, 204, 1927.
- Meganeria* n. gen., *daeckei*  
nCresson, Trans. Amer. Ent. Soc. 52, 271-272, 1926.

- Meganeria geometroides*  
nCresson, Trans. Amer. Ent. Soc. 52, 271, 1926.
- Megapodagrioninae*—Notes  
ibKennedy, B. Harvard, Mus. Comp. Zool. 67, 291-311, 1925.
- Megarhinus gigantulus, nepenthis*  
nDyar & Shannon, Ins. Insc. Mens. 13, 66-68, 1925.
- Megarhinus*—spp.—key  
Dyar, Ins. Insc. Mens. 13, 180, 1925.
- Megaris antennata*  
niMcAtee & Malloch, P.U.S.N.M. 72: 25, 11, 1928.
- Megaris biguttata*  
nMcAtee & Malloch, Proc. Ent. Soc. Wash. 30, 46, 1928.
- Megaris constricta* 11, *hemisphaerica* 9, *longula* 9, *majuscula* 6, *semiamicta* 10-11, *stalii* 9-10.  
niMcAtee & Malloch, P.U.S.N.M. 72: 25, 1928.
- Megauchomyia*, n. gen., *africana*  
nFelt, J.N.Y. Ent. Soc. 36, 123-124, 1928.
- Megaulacobothrus kongausensis*  
nCaudell, P.U.S.N.M. 71: 4, 3-4, 1928.
- Megilla maculata*  
Eddy, Ohio J. Sci. 27, 197, 1927.
- Megistias neamathla*  
Bell, Brklyn. Ent. Soc. B. 21, 184, 1926.
- Megistomastix cubensis*  
nAlexander, J.N.Y. Ent. Soc. 36, 47-48, 1928.
- Megormyrus* n. gen., *amabilis*  
Cockerell, Psyche 33, 36-38, 1926.
- Melalopha inclusa*  
Britton & Zappe, Conn. B. 292, 146, 1927.  
Peirson, Me. For. Serv. B. 5, 114, 1927.
- Melampsalta calliope*  
bBeamer, Kans. Univ. Sci. B. 18: 190-194, 1928.
- Melampsalta campbelli* 69-71, *cassiope* 72-73, *hamiltoni* 71-72, *mangu* 67-69, *melanesiana* 64-65, *muta* 74, *oromelaena* 65-67, *sericea* 62-64, sp. 61-76.  
biMyers, Psyche 33, 1926.
- Melanauster chinensis* (Trunk borer)  
Clausen, USDA Tech. B. 15, 11-12, '27.
- Melandrya* (*Emmesa*) *blackmani*  
nHatch, Ann. Ent. Soc. Amer. 20, 364-365, 1927.
- Melandrya*—spp.—Key, *noveboracensis*  
Hatch, Ann. Ent. Soc. Amer. 20, 363-365, 1927.
- Melandrya testacea*  
nVan Dyke Brklyn. Ent. Soc. B. 23: 252, 1928.
- Melanodexia grandis, satanica*, spp.—key  
nShannon, Proc. Ent. Soc. Wash. 28, 137-139, 1926.
- Melanolophia eucheria*  
nSchaus, Proc. Ent. Soc. Wash. 29, 79, 1927.
- Melanophia phyararya*  
nDyar, Ins. Insc. Mens. 14, 186-187, 1927.
- Melanophila consputa*  
Van Dyke, Pan-Pacific Ent. 3, 41, 1926.  
Van Dyke, Pan-Pacific Ent. 4, 113, 1928.
- Melanophila fulvoguttata*  
iPeirson, Me. For. Serv. B. 5, 69-70, 1927.
- Melanophila gentilis*  
iKeen, Cal. Dept. Nat. Resources B. 7, 58-59, 1928.
- Melanophila* spp.—key  
Fisher, U.S.N.M.P. 65; Art. 9, 170, 1925.
- Melanoplus atlantis* (Lesser migratory grasshopper)  
iCaesar, Ont. Dept. Agr. B. 325, 8-9, 1927.  
Cooley, Mont. B. 170, 23, 1925.  
Hawley, Utah C. 54, 18, 1925.  
Pettit, Mich. St. Bd. Agr. R. 63, 665-666, 1924.
- bShotwell, J. Ec. Ent. 22, 581-588, 1929.  
bShotwell & Cowan, J. Ec. Ent. 21, 222-230, 1928.
- Melanoplus bivittatus* (Two striped grasshopper)\*  
iHawley, Utah C. 54, 18, 1925.  
O'Kane, J. Ec. Ent. 21, 201-202, 1928.
- Melanoplus borealis*  
Caudell, Proc. Ent. Soc. Wash. 28, 70, 1926.
- Melanoplus bowditchi*  
iHebard, Phila. Acad. Nat. Sci. Proc. 77, 120-123, 1926.
- Melanoplus complanatus*  
Hebard, Trans. Amer. Ent. Soc. 51, 292, 1925.

- Melanoplus differentialis** (Differential grasshopper)\*  
 Davis, Brklyn. Ent. Soc. B. 20, 199, '25.  
 Davis, J.N.Y. Ent. Soc. 35, 312, 1927.  
 Davis, Brklyn. Ent. Soc. B. 24, 52, 1929.  
 iEverly, Ohio J. Sci. 29, 309-315, 1929.  
 iGlasgow, Psyche 32, 285-290, 1925.
- Melanoplus femoratus**  
 Pettit, Mich. Sp. B. 183, 3-4, 1929.
- Melanoplus femur-rubrum** (Red-legged grasshopper)\*  
 Brownell, Nature Mag. 8, 79, 1926.  
 iCaesar, Ont. Dept. Agr. B. 325, 8-9, 1927.  
 Christie, J. Parasitol. 15, 127-130, 1928.  
 Davis, Ind. Acad. Sci. Proc. 41, 304-305, 1925.  
 Hawley, Utah C. 54, 18, 1925.  
 Langford, J. Ec. Ent. 19, 670, 1926.  
 Marcovitch, Tenn. B. 139, 39-40, 1928.  
 O'Kane, J. Ec. Ent. 21, 201-202, 1928.  
 Pettit, Mich. St. Bd. Agr. R. 63, 665-666, 1924.  
 Zappe, Conn. B. 275, 322, 1926.
- Melanoplus oregonensis**  
 niHebard, Phila. Acad. Nat. Sci. Proc. 80, 269-271, 1928.
- Melanoplus sp.**  
 Gillette, Colo. R. 39, 32, 1926.
- Melanoplus spretus** (Rocky Mountain grasshopper)\*  
 Criddle, Ont. Ent. Soc. R. 55, 13, 1925.  
 Otanes, Philip. Agr. R. 20: 4, 477-485, 1927.
- Melanoplus stonei**—Michigan  
 Hubbell, Ent. News 36, 168-173, 1925.
- Melanoplus warneri**  
 niLittle, Proc. Ent. Soc. Wash. 31, 114-116, 1929.
- Melanorhopala balli**  
 iDrake, Fla. Ent. 12, 3, 1928.
- Melanorhopala clavata**  
 iDrake, Ann. Carnegie Mus. 16, 376-377, 1926.
- Melanostoma atra**  
 niCurran, Kans. Univ. Sci. B. 15, 114, '25.
- Melanostoma carinata**  
 nCurran, Amer. Mus. Nov. 247, 11-12, '27.
- Melanostoma confusum, luteipennis**  
 niCurran, Kans. Univ. Sci. B. 15, 112-115, 1925.
- Melanostoma pallitarsis**  
 nCurran, Can. Ent. 58, 83-84, 1926.
- Melanotrichus atricornis** 145-146, brevis-rostris 144-145, chelifer 144, incurvus 143-144, leviculus 146-147, mimus 147, nicholi 145, wileyae 146  
 nKnight, Can. Ent. 59, 1927.
- Melanotus communis**  
 Caesar, Ont. Dept. Agr. B. 325, 12-14, 1927.  
 Fenton, J. Econ. Ent. 19, 502-504, 1926.  
 Mail, Minn. Ext. C. 29, 1928, 4 p.
- Melanotus obscuratus, piceatus**  
 nBlatchley, Ent. News 38, 141-142, 1927.
- Melantous pilosus**  
 Fenton, J. Econ. Ent. 19, 502-504, 1926.
- Melanotus simulans**  
 nBlatchley, Ent. News 38, 140, 1927.
- Melanotus sp.**  
 iHawkins, Me. B. 343, 6-8, 1928.
- Melanoxantherium smithae** (Willow grove aphid)  
 de Gryse, Can. Dept. Agr. Ent. Br. Pam. 47, n.s. rev. ed., 20, 1925.
- Melasiidae**—Central American  
 bBarber, Proc. Ent. Soc. Wash. 27, 62-64, 1925.
- Melasis spp.**—Key, tsugae  
 Hopping, Can. Ent. 58, 226-228, 1926.
- Meledonus**  
 nAldrich, PUSNM 69; 22, 15-16, 1926.
- Meledonus latipennis**  
 nAldrich, P.U.S.N.M. 69, Art. 22, 16, 1926.
- Meleterus n. gen., montanus**  
 Aldrich, Trans. Amer. Ent. Soc. 52, 20-21, 1926.
- Meligethes aeneus**  
 Chittenden, Brooklyn Ent. Soc. B. 20, 149, 1925.
- Melinaea zonae, comma**  
 iForbes, J.N.Y. Ent. Soc. 35, 23-36, 1927.
- Melinda minuta**  
 niCurran, Amer. Mus. Novit. 375, 9, 1929.
- Melipona fulvipes**  
 Cockerell, Psyche 35, 171-172, 1928.
- Melissodes alopec**  
 nCockerell, Psyche 35, 333, 1928.
- Melissodes manni**  
 nCockerell, Amer. Mus. Novit. 113, 1-2, 1924.

- Melissodes metenua*  
nCockerell, Pan-Pac. Ent. 3; 2, 85, 1926.
- Melissodes obliqua*  
Custer, Psyche, 36, 293-295, 1929.
- Melissodes sabinensis*  
nCockerell, Amer. Mus. Novit. 113, 1, 1924.
- Melissodes* sp.  
ibCuster, Can. Ent. 60, 28-31, 1928.
- Melissodes tepaneca*  
nCockerell, Psyche 35, 174, 1928.
- Melissopus latiferreanus*  
Lewis, Cal. Agr. Mo. B. 16, 290, 1927.
- Melिताea calydon*  
Barnes & Benjamin, Ent. News 36, 119, 1925.
- Melitara doddalis*  
nDyar, Ins. Insc. Mens. 13, 13, 1925.
- Melिताea eurytion*  
Barnes & Benjamin, Ent. News 36, 119, 1925.
- Melिताea harrisi*  
Engelhardt, Brklyn. Ent. Soc. B. 21, 157, 1926.
- Melिताea mayi*  
niGunder, Bklyn. Ent. Soc. B. 24, 327, '29.
- Melिताea phaeton*  
Lutz, Nat. Hist. 25, 133, 1925.  
iMd. Acad. Sci. Quar. B. 6; 2, 23, 1927.
- Melitara prodenialis*  
Hamlin, Pan-Pac. Ent. 2, 1-4, 1925.
- Melिताea quino*  
nGunder, Pan. Pac. Ent. 5, 4-5, 1928.
- Melitoma taurea*  
Davis, Brklyn. Ent. Soc. B. 21, 127, 1926.
- Melittia gloriosa*  
iThompson, Oreg. St. Bd. Hort. Bien. R. 19, 126-127, 1927.
- Melittia lindseyi*, new name  
Barnes & Benjamin, Proc. Ent. Soc. Wash. 27, 14, 1925.
- Melittia satyriniformis* (Squash borer)\*  
Cleveland, J. Ec. Ent. 20, 125-143, 1927.  
Compton, Canning Trade, 48; 52, 12, 1925.  
Compton, Ill. C. 297, 36-37, 1925.  
D. D. M., Rur. N.Y. 85, 929, 1926.  
Drake & Harris, Iowa C. 90 rev., 6-8, 1926.  
Foust, Rur. N. Y. 88, 1497, 1929.  
Headlee, N.J. Hort. Soc. Proc. f. 1926, 33.
- MacLeod, Penn. St. Col. C. 122, 30, 1929.
- Spencer & Henderson, Va. Truck B. 52, 401-411, 1925.
- Watson, Fla. Dept. Agr. Quar. B. 39: 3; 122-123, 1929.  
Rur. N. Y. 88, 860, 1929.
- Melittobia chalybii*  
ilBuckell, Pan. Pac. Ent. 5, 14-22, 1928.
- Melittobia* sp.  
Frison, Ann. Ent. Soc. Amer. 19, 225, 1926.
- Melittomma sericeum*  
Peirson, Me. For. Serv. B. 5, 52, 1927.
- Melittophora salti*  
nBrues, Psyche 35, 136, 1928.
- Melittophora* sp.  
nBrues, Psyche 35, 134-136, 1928.
- Meloe americanus*  
niVan Dyke, Cal. Univ. Pub. Ent. 4, 422-423, 1928.
- Meloe angusticollis*  
Herrick, Rur. N.Y. 88, 1328, 1929.
- Meloe californicus*  
nVan Dyke, Cal. Univ. Pub. Ent. 4; 12, 426, 1928.
- Meloe franciscanus, quadricollis*  
niVan Dyke, Cal. Univ. Pub. Ent. 4; 12, 437-439, 1928.
- Meloidae*  
Mickel, Ent. News 40, 1-7, 1929.  
Mote, Oreg. C. 65, 36, 1926.  
Van Dyke, Pacific Coast Ent. Soc. Proc. 2; 50, 1926.
- Meloini*  
Van Dyke, Cal. Univ. Pub. Ent. 4; 12, 395-474, 1928.
- Melolontha vulgaris* in Italy  
Smyth, J. Ec. Ent. 19, 882, 1926.  
Webber, J. Ec. Ent. 20, 305, 1927.
- \*Melon aphid, *see* *Aphis gossypii*
- Melon fruit fly, *see* *Chaetodacus cucurbitae*
- Melon* insects  
Drake & Harris, Iowa C. 90 rev., 1926, 12 p.  
Haseman, Mo. B. 228, 47, 1925.  
Herrick, Rur. N. Y. 85, 71, 1926.  
Poe, Purdue Agr. 19, 166, 1925.
- \*Melon worm, *see* *Diaphania hyalinata*

**Melophagus ovinus (Sheep tick)\***

A., A. S., Rur. N. Y. 84, 279, 1925.

A., A. S., Rur. N. Y. 85: 4886, 302, '26.

iBrittain, N. S. Dept. Nat. Resource B. 12, 106-107, 1927.

Fernald, Applied Ent. ed. 2, 333, 1926.

Garricus, C. Gentlem. 92; 3, 126, 1927.

Green, Breeder's Gaz. 87, 519, 1925.

Griswold, Dakota Farmer 45, 446, 1925.

Griswold & McMahan, No. Dak. Ext.

C. 59, 85-87, 1925.

Hill, Wyo. R. 35, 84-85, 1925.

Imes, U.S.F.B. 798 rev. Feb. 1928, 31 p.

Imes, Farm. & Breed. 52; 14, 7, 15, 1929.

Imes, Iowa Homestead, 74, 183, 1929.

J. D. A., Breeders' Gazette 87, 519, 1925.

iSevenson, Ont. Dept. Agr. B. 337, 22-24, 1928.

Stiles, Amer. Vet. Med. Assoc. J. 74, 703-723, 1929.

Wright, Md. Agr. Soc. R. 13, 379-380, 1928.

**Meloposarcophaga pachyprocta**

Greene, P.U.S.N.M. 66: 29, 15, 1925.

**Melyridae**

Blaisdell, Can. Ent. 58, 8-9, 1926.

Blaisdell, Pan. Pac. Ent. 4, 49-53, 1927.

**Membracidae**

iChamplain, Nat. Mag. 11, 250, Ap. '28.

Funkhouser, Membracidae, 1927, 581 p.

Goding, J. N. Y. Ent. Soc. 34, 207-208,

1926; 34, 279-281, 295-317, 1926; 34,

295-317, 1926; 35; 183-191, 1927; 391-

409, 1927; 36, 37-45, 1928; 201-234,

1928.

Goding, Trans. Amer. Ent. Soc. 55, 197-330, 1929.

niHaviland-Brindley, Zoologica, N. Y. 6, 229-290, 1925.

iMcAtee & Malloch, Proc. Biol. Soc. Wash. 41, 39-40, 1928.

Metcalf, Ent. News 38, 14-17, 1927.

iMetcalf & Bruner, Brklyn. Ent. Soc. B. 20, 203-214, 1925.

Myers, Psyche 35, 124-125, 1928.

biSorenson, Utah B. 206, 3-18, 1928.

**Membracidoidea—n. gen., rubridorsa**

nGoding, J.N.Y. Ent. Soc. 37, 173-174, 1929.

**Membracioides, n. gen., parallela**

McAtee & Malloch, P.U.S.N.M. 67,

Art. 13, 27, 1926.

**Membracis genus**

Metcalf, Ent. News 38, 1, 16-17, 1927.

**Membracis nigrolutea**

inFunkhouser, J.N.Y. Ent. Soc. 35, 159-160, 1927.

**Menagier de Paris—Entomology**

Weiss, J. N. Y. Ent. Soc. 37, 421-423, 1929.

**Mendicea scaphoidea**

nGoding, J.N.Y. Ent. Soc. 34, 279, 1926.

**Menetus n. gen., macropogon**

Aldrich, Trans. Amer. Ent. Soc. 52, 23-24, 1926.

**Menida cockerelli**

nVan Duzee, Pan-Pac. 6, 93-94, 1929.

**Menopon biseriatum (Large body hen louse)**

iHerrick, N.Y. Cornell Ext. B. 115, 3-4, 1925.

iKaupp, Vet. Med. 20, 405, 1925.

iShillinger, Vet. Med. 22, 404, 1927.

**Menopon gallinae**

iSwank & Mussehl, Neb. C. 37, 6, 1928.

**Menopon pallidum (Small body hen louse)**

iHerrick, N. Y. C. Ext. B. 115, 3, 1925.

Wright, Md. Agr. Soc. R. 13, 379, 1928.

Amer. Poul. Advoc. 35; 234, 1926.

Cal. Cult. 71, 220, 1928.

**Menopon stramineum (Chicken body louse)\***

iSwank & Mussehl, Neb. C. 37, 6, 1928.

**Menoponidae**

Ewing, J. Wash. Acad. Sci. 17, 91-92, 1927.

**Meracantha contracta**

Blake, Ill. Biol. Monog. 10: 4, 81, 1926.

**Meragisa euthymia 41-42, mochosema**

42, polycarpa 43, salvina 40, simeona

41, vistara 40-41.

nSchaus, P.U.S.N.M. 73; 19, 1928.

**Mercetiella n. gen., reticulata**

niDozier, Proc. Ent. Soc. Wash. 28, 98-100, 1926.

**Mericina—n. gen., ruficauda**

nCurran, Amer. Mus. Nov. 260, 6-7, 1927.



- Meris albocrenulata*  
nCassino, Lepidopterist 4, 87-88, 1927.
- Meris atriscapus, harmolitae*  
nGahan, P.U.S.N.M. 71, Art. 4, 2-5, 1928.
- Mermis albicans*  
Pettit, Mich. Sp. B. 183, 18, 1929.  
iFla. Dept. Agr. Quar. B. 39; 3; 81, 1929.
- Mermis nigrescens, sp. in insects*  
bCobb, J. Parasitol. 13, 66-72, 1926.
- Mermis sp. in ants*  
ibWheeler, J. Expt. Zool. 50, 165-237, 1928.
- Mermis subnigrescens*  
biCobb, J. Parasitol. 13, 66-72, 1926.  
Cobb, J. Wash. Acad. Sci. 19, 159-166, 1929.
- Merodon equestris (Narcissus bulb fly)\**  
Broadbent, J. Ec. Ent. 20, 94-113, 1927.  
Broadbent, J. Ec. Ent. 21, 353-357, 1928.  
Cole, J. Ec. Ent. 22, 236-237, 1929.  
Doucette, Florists's Exch. 62, 377, '26.  
iDoucette, Nat. Mag. 12, 117-118, 1928.  
Doucette, Wash. St. Hort. Soc. Proc. 23, 184-186, 1928.  
Downes, Proc. Ent. Soc. B. C. 25; 16, 1928.  
Frank & Broadbent, Flor. Exch. 62; 661, 1926.  
Hecke, Flor. Exch. 62; 575, 1926.  
Jardine, Oreg. Bien. Rept. 1924-1926, 104, 1926.  
Jardine, U.S.D.A., F.H.B., S.R.A. 87, 40, 1926; 88, 70-76, 1926.  
Johnson, Psyche 24, 34, 1927.  
L:C.L., Florists Ex. 62, 313, 1926.  
Locklin & Newton, West. Wash. B. 13, W. n.s. 7-8, 1929.  
McDaniel, Mich. Quar. B. 9:2:54, 1926.  
iMcDaniel, Mich. Sp. B. 173, 11-14, 1928.  
Marlatt, U.S.D.A., F.H.B., S.R.A. 87, 36-39, 1926; 90, 48-49, 1928.  
Marlatt, U.S.D.A., P.Q.C.A., S.R.A. 96, 79-80, 1928.  
Milburn, Gard. Chronicle 31, 96-97, 1927.  
Mote, Cal. Dept. Agr. Sp. Pub. 85, 53, 1928.  
Park, Oreg. St. Bd. Hort. Bien. R. 19, 53-55, 1927.  
Pettit, Mich. Ent. R. f. 1926, 19.
- iPettit, Mich. Bd. Agr. R. 65, 279-280, 1927.
- ibPoos & Weigel, Va. Truck B. 60, 572-578, 1927.  
Reinhardt, Gard. Chronicle 30, 235, 1926.  
Ryan, Cal. Dept. Agr. Mo. B. 18, 328-330, 1929.  
iSmith, Calif. Dept. Agr. Mo. B. 17, 614-619, 1928.  
Straight, Can. Exp. Sta. Sidney, B.C.R. f. 1927, 37, 1928.  
iWeigel, Flor. Exch. 62; 461, 489, 1926.  
Weigel, J. Econ. Ent. 19, 497-501, 1926.  
Weigel, J. Ec. Ent. 21, 352-353, 1928.  
iWells, Florists' Rev. 60; 1549, 28-29, 1928.  
iWilcox, Oreg. Bd. Hort. R. 18, 130-137, 1926.  
iWilcox, Oreg. St. Bd. Hort. Bien. Rept. 19, 149-153, 1927.  
iWilcox & Mote, Florists Exchange 63, 729, 1926.  
eiWilcox & Mote, J. Ec. Ent. 20, 708-714, 1927.
- Merodon equestris—Quarantine*  
Jardine, U.S.D.A., F.H.B., S.R.A. 91, 73-75, 1927.  
Scholl, Tex. Dept. Agr. B. 87, 54, 1927.  
Amer. Florist 66; 1981, 1, 1926.  
Florists' Exch. 62; 486, 1926.  
Florists' Exch. 62; 545, 1926.  
Florists Exch. 62, 575, 1926.  
Gard. Chronicle 30, 21, 1926.  
U.S.D.A. Fed. Hort. Bd. N. & Q. 62, 1928, 6 p.
- Merolonche atlinensis*  
nBarnes & Benjamin, Can. Ent. 58, 309-310, 1926.
- Meromyza americana (Wheat stem maggot)\**  
Curtiss, Iowa R. f. 1927, 36.  
ibGilbertson, S. D. B. 217, 1925, 28 p.  
iKelly, Kans. Ext. B. 62, 28-29, 1929.  
King, Sci. Agr. 9, 384, 1929.  
Severin, S. D. R. f. 1923-24, 24.  
iWebster, No. Dak. C. 25, 4-7, 1925.
- Merothrips cognatus*  
nHod, Psyche 32, 53, 1925.
- Merothrips floridensis*  
nWatson, Fla. Ent. 10, 60-61, 1927,

- Mesagroicus elongatus* 10-11, *hispidus* 12, *minor* 6-8, *oblongus* 8-9, *ocularis* 13-14, *plumosus* 9-10, *strigiquamosus* 13  
 nBuchanan, P. U. S. N. M. 76; 4, 1929.
- Mesamotura aristophani, corticis*  
 Girault, Ins. Insc. Mens. 14, 133-134, '26.
- Mescinia peruella*  
 nSchaus, Proc. Ent. Soc. Wash. 29, 186, '27.
- Mesembragotis n. gen., ruckesi*  
 nBarnes & Benjamin, Pan. Pacific Ent. 4, 4-5, 1927.
- Mesembrina magnifica, tristis*  
 Aldrich, P.U.S.N.M. 66: 18, 7, 9, 1925.
- Mesembrinella flavicrura* 16, *semiflava* 14-15, *spicata* 13, *uniseta* 13-14  
 Aldrich, P.U.S.N.M. 66: 18, 1925.
- Mesembrius gen.*  
 iCurran & Fluke, Wis. Acad. Sci. Tr. 22, 229-230, 1926.
- Mesembrius platytarsis, simplicipes*  
 nCurran, Ann. Ent. Soc. Amer. 22: 500-502, 1929.
- Mesembrius tuberosum*  
 nCurran, Amer. Mus. Novit. 200, 5-6, 1925.
- Meskea dyspteraria*  
 Bottimer, J. Agr. Res. 33, 802-803, 1926.  
 iSchwartz, Psyche 32, 70-74, 1925.
- Mesobracon minor, pedalis*  
 nBrues, Proc. Amer. Acad. Arts & Sci. 61, 240-242, 1926.
- Mesochorus confusus*  
 iEllinger, & Sachtleben. Internat. Corn Borer Invest. Sci R. 2, 67-68, 1929.
- Mesochorus vitreus*  
 nMuesebeck & Dohanian, U. S. D. A. B. 1487, 18, 1927.
- Mesocopidosomyia, n. gen., variventris*  
 nGirault, Ins. Insc. Mens. 13, 93-94, 1925.
- Mesogramma basilaris*  
 Curran, Can. Ent. 57 307, 1925.
- Mesogramma flaviplura*  
 niHall, Ent. News 38, 239-240, 1927.
- Mesogramma floralis*  
 Curran, Can. Ent. 57, 307, 1925.
- Mesogramma marginatus, see Toxomerus marginatus*
- Mesogramma musicus*  
 Curran, Can. Ent. 58, 114, 1926.
- Mesogramma philippi*—n. name  
 nShannon, P.U.S.N.M. 70; 9, 24, 1927.
- Mesogramma rufocincta*  
 nCurran, Amer. Mus. Nov. 245, 7-8, 1927.
- Mesogramma tibicen*  
 Curran, Can. Ent. 58, 113-114, 1926.
- Mesogramma verticalis*  
 nCurran, Amer. Mus. Nov. 245, 6-7, 1927.
- Mesolecanium inquilinum*  
 niMorrison, Ann. Ent. Soc. Amer. 22, 39-40, 1929.
- Mesoleius tenthredinis*  
 bCriddle, Can. Ent. 60, 51-53, 1928.
- Mesomiris albescens*—Arizona  
 nVan Duzee, Pan-Pacific Ent. 2, 35, 1925.
- Mesonymphes hageni*  
 nibCarpenter, Psyche 36, 191-194, 1929.
- Mesorhaga clavicauda*  
 nVan Duzee, Pan-Pacific Ent. 1, 154, 1925.
- Mesorhaga pallidicornis*  
 nVan Duzee, Psyche 32, 178-179, 1925.
- Mesostenus melanurus*  
 nCushman, P.U.S.N.M. 74; 16, 47-48, 1929.
- Mesostenus spp.*—revision  
 Cushman, P.U.S.N.M. 74, art. 16, 1929, 58 p.
- Mesotheu zenobia*  
 nSchaus, Proc. Ent. Soc. Wash. 29, 73-74, 1927.
- Mesotrichia calcarata* 18, *chapini*, 5, *ignescens* 6, *langi* 17, *nigricauda* 17, *perpunctata* 10, *spp.* 23, *stanleyi* 18, *subcombusta* 9; nLeVeque, Amer. Mus. Novit. 300, 1928.
- Mesovelia bisignata*  
 Van Duzee, Pan-Pac. Ent. 6, 77, 1929.
- Mesoveloidea*—n. gen., *williamsi*  
 niHungerford, Bklyn. Ent. Soc. B. 24, 288-290, 1929.
- Messamia diana, pagana*  
 nVan Duzee, Proc. Cal. Acad. Sci. ser. 4, 14, 409-411, 1925.
- Messatoporus compressicornis* 12-13, *discoidalis* 8-9; nCushman, P.U.S.N.M. 74: 16, 1929.
- Messatoporus major* 13, *rufiventris* 11-12  
 nCushman, P.U.S.N.M. 74; 16, 1929.

**Messor andrei—So. Cal.**

Pijoan, J. Ent. Zool. 20, 39, 1928.

**Metabolism of insects, see Insect metabolism****Metachroma anaemicum, coronadense**

nFall, Can. Ent. 59, 138-139, 1927.

**Metachroma insulare**

nFall, Cal. Acad. Sci. Proc. ser. 4, 16, 390-391, 1927.

**Metachroma interruptum**

iDavis, Ind. Acad. Sci. Proc. 41, 313, 1925.

**Metachroma opacipenne**

nFall, Can. Ent. 59, 138, 1927.

**Metacoelus cavicola**

nCushman, P.U.S.N.M. 76; 25, 5-6, 1929.

**Metadevescovina debilis**

ibLight, Cal. Univ. Pub. Zool. 29; 6, 141-158, 1926.

**Metadicylus n. gen., australiensis**

Girault, Ins. Insc. Mens. 14, 71-72, 1926.

**Metalepsis cornuta**

McDunnough, Can. Ent. 59, 65, 1927.

**Metallea illingworthi**

nAldrich, PUSNM 69; 22, 7-9, 1926.

**Metallea robusta**

nAldrich, PUSNM 69; 22, 9-10, 1926.

**Metallus rubi (Blackberry leaf miner)**

ibDaniel, N. Y. Gen. Tech. B. 133, 1928, 38 p.

iNeedham, Frost & Tothill, Leaf-nining insects, 1928, 226-228.

Rohwer, Proc. Ent. Soc. Wash. 29, 67-69, 1927.

**Metamasius hemipterus (West Indian cane weevil)\***

bEarle, Facts about Sugar 22, 1010, 1927.

**Metamasius sericeus (Silky cane weevil)\***

bEarle, Facts about Sugar 22, 1010, 1927.

Gowdey, J. Jam. Agr. Soc. 30, 344, '26.

Janes, Facts about Sugar 21: 5, 118, 1926.

Larrimer, Sugar B. 7, 19, 3, 1929.

Salt, Harvard Inst. Trop. Biol. & Med. Cont. 3, 41-47, 1926.

Van Dine, Trop. Plant Res. Found. B. 3, 9, 1926.

**Metamonius**

Needham & Murphy, Lloyd Lib. B. 24, 28-29, 1924.

**Metamorphosis of insects, see Insect metamorphosis****Metapelma beenleighi**

nGirault, Ins. Insc. Mens. 14, 64, 1926.

**Metaphycus fuscicornis**

niCompere, Cal. Univ. Pub. Ent. 4, 220-221, 1928.

**Metaphycus kincaidi**

nTimberlake, Pan Pac. Ent. 6:43-45, 1929.

**Metaphycus lounsburyi, natalensis**

iSmith & Compere, Cal. Univ. Pubs. Ent. 4, 275-292, 1928.

**Metaplusia—n. gen., trichodisca**

Dyar, Ins. Insc. Mens. 13, 6, 1925.

**Metarrhizium anisopliae and silkworms**

bGlaser, Ann. Amer. Ent. Soc. 21, 202, 1928.

**Metapterus aberrans 86, annulipes 88, banksii 87, fraternus 89, neglectus 87, spp.—key 84, uhleri 86**

iMcAtee & Malloch, P. U. S. N. M. 67, Art. 1, 1925.

**Metasarca euphancra—n. gen. & sp.**

Dyar, Ins. Insc. Mens. 13, 5, 1925.

**Metatropiphorus drakei**

nHarris, Ent. Amer. 9, 73-74, 1928.

**Metcalf, Dest. insects, review**

Howard, Science, 68, 623, 1928.

**Meteorus cingiliae**

nMuesebeck, P. U. S. N. M. 69, Art. 7, 3-4, 1926.

**Meteorus durbanensis, fasciatus**

nBrues, Proc. Amer. Acad. Arts & Sci. 61, 294-296, 1926.

**Meteorus japonicus**

Burgess & Crossman, USDA Tech. B. 86, 103, 1929.

**Meteorus laphygmae**

Viereck, Proc. Ent. Soc. Wash. 27, 137, '25.

**Meteorus laphygmarum**

nBrues, Proc. Amer. Acad. Arts & Sci. 61, 296-297, 1926.

**Meteorus loxostege**

Baldus, Ohio J. Sci. 29, 230-232, 1929.

**Meteorus loxostegoi**

Hawley, Utah C. 54, 12, 1925.

**Meteorus neavei**

nBrues, Proc. Amer. Acad. Arts & Sci. 61, 297-298, 1926.

- Meteorus pulchricornis**  
Burgess & Crossman, USDA Tech. B. 86, 103, 1929.
- Meteorus sp.**  
Felt, N. Y. St. Mus. B. 274, 164, 1928.
- Meteorus tetralophae**  
nMuesebeck, PUSNM 69; 7; 2-3, 1926.
- Meteorus versicolor**  
Burgess & Crossman, U. S. D. A. Tech. B. 86, 127-131, 1929.
- Meteorus vulgaris**  
King & Atkinson, Ann. Ent. Soc. Amer. 21, 171, 1928.  
Snow, J. Ec. Ent. 18, 607, 1925.
- Methia brevis**  
nFail, Can. Ent. 61, 58, 1929.
- Methoca ichneumonides**  
Mickel, U. S. N. M. B. 143, 9, 1928.
- Metopia gen. 45-47, campestris 52-54, inermis 54-55, lateralis 58-60, lateropili 57-58, leucocephala 48-50, opaca 50-52, perpendicularis 62, sinipalpis 60-62, spp.—key to N. Am. 48, tessellata 55-57.** nAllen, PUSNM 68; 9, 1926.
- Metopius unifenestratus**  
Girault, Ins. Insc. Mens. 13, 36, 1925.
- Metriona lodingi, marginepunctata**  
nSchaeffer, J. N. Y. Ent. Soc. 33, 236, 1925.
- Metrioptera sphagnum**  
Buckell, Proc. Ent. Soc. B. C. 25; 14, 1928.
- Metrius contractus n. subsp.**  
Van Dyke, Pan-Pacific Ent. 1, 122, 1925.
- Metrobates hesperius**  
iParshley, Bklyn. Ent. Soc. B. 24, 157-160, 1929.
- Metrotopus norvegicus**  
McDunnough, Can. Ent. 57, 187-189, 1925.
- Mettalea nigribarba**  
nAldrich, PUSNM 69; 22, 10, 1926.
- Meunier, Fernand—Obituary**  
Ent. News 37, 312, 1926.
- \*Mexican bean beetle, see Epilachna corrupta.**
- "Mexican bees," see Nectarina lecheguana.**
- Mexico book beetle, see Catorama herbarium.**
- Mexican chicken bug, see Haematosiphon inodorus.**
- Mexican chigger mite, see Trombicula tlalzahuatl.**
- Mexican fruit worm, see Anastrepha ludens**
- Mexican gadfly, see Tabanus mexicanus**
- Mexican grain beetle, see Pharaxonotha kirschi.**
- Mexican mealybug, see Phenacoccus gossypii**
- Mexican wax scale, see Ceroplastes ceriferus**
- Mezira reducta**  
nVan Duzee, Pan-Pacific Ent. 3, 142, 1927.
- Miomyia—Key to spp.**  
Dyar, Insec. Ins. Mens. 13, 116, 1925.
- "Miana bug," see Argas miniatus**
- Micra recta—Identity of**  
Barnes & Benjamin, Pan-Pacific Ent. 4, 39, 1927.
- Micracinae**  
Blackman, N. Y. State Coll. For. B. 1, 3-b, 185-208, 1928.
- Micracis cubensis 193-194, lignator 195-196**  
nBlackman, N. Y. State Coll. For. B. 1: 3-b, 1928.
- Micracisella opacicollis**  
Blackman, N. Y. State Coll. For. B. 1: 3-b, 196, 1928.
- Micralcinus kalmbachi**  
nBuchanan, Ent. News 38, 169-170, 1927.
- Micranthia pumpila**  
nBlatchley, J. N. Y. Ent. Soc. 36, 22-23, 1928.
- Micrixys mexicanus**  
nVan Dyke, Pan Pac. Ent. 4: 2; 93, 1927.
- Microbembex bidens, equalis**  
niParker, P. U. S. N. M. 75; 5, 157-158, 164, 1929.
- Microbembex monodonta**  
Chapman et al, Ecology 7, 423, 1926.  
Fox, Cal. Acad. Sci. Proc. ser 4, 15; 5, 221, 1926.  
Schwarz, J. N. Y. Ent. Soc. 35, 314, 1927.
- Microbembex natalis 162-163, nasuta 163-164, tricolor 159-160**  
niParker, P. U. S. N. M. 75; 5, 1929.
- Microbracon aequalis 73-74, americanus 28, analcidis 59, angelesius 43-44, apicatus 64-65, argutator 74, ashmeadi 42, atricollis 58-59, auripes 44-45, brachyurus 36**  
Muesebeck, P. U. S. N. M. 67, Art. 8, 1925.

**Microbracon brevicornis**

Baird, Ont. Ent. Soc. R. 59, 39, 1929.  
Dudich, Internat. Corn Borer Invest.  
R. 2, 184-188, 1928.

iEllinger & Sachtleben, Internat. Corn  
Borer Invest. Sci. R. 1, 121-126, 1928.  
Hergula, Internat. Corn Borer Invest.  
Sci. R. 2, 117-119, 1929.

iJones, USDA Tech. B. 98, 4-5, 12-16,  
1929.

Knechtel & Ionescu, Internat. Corn  
Borer Invest. R. 2, 199-200, 1928.  
iMuesebeck, PUSNM 67, 8, 33, 1925.

Paillot, Internat. Corn Borer Invest.  
Sci. R. 1, 91, 1928.

**Microbracon canadensis** 79, *caulicola* 72-  
73, *cephi* 61, *cerambycidiphagus* 76-  
77, *cinctus* 77, *connecticutorum* 40,  
*cookii* 80-81, *curtus* 48-49, *cushmani*  
29, *diversicolor* 27, *erucarum* 27-28,  
*furtivus* 67-68, *gastroideae* 35-36, *ge-  
lechia* 26-27

iMuesebeck, P. U. S. N. M. 67, Art. 8, 1925.

**Microbracon gemmaecola**

nCushman, J. Agr. Res. 34, 740-741, '27.

**Microbracon geraei** 74-75, *hebetor* 31-33  
nMuesebeck, P. U. S. N. M. 67, Art. 8, 1925.

**Microbracon hector**

nBrues, Proc. Amer. Acad. Arts & Sci. 61,  
208-210, 1926.

**Microbracon helianthi** 1-2, *hemimenae* 61-  
62, *hobomok* 71-72, *hyslopi* 49-50,  
*juncicola* 37, *konkapoti* 79-80, *laemo-  
sacci* 56-57

nMuesebeck, P. U. S. N. M. 67, Art. 8, 1925.

**Microbracon lendicivorus**

nCushman, P. U. S. N. M. 76; 25, 15-17, 1929.

**Microbracon lutus**

Baldus, Ohio J. Sci. 29, 221-224, 1929.  
Muesebeck, PUSNM 67; 8, 75-76, 1925.

**Microbracon melanaspis**

iMuesebeck, PUSNM 67; 8, 36-37, 1925.

**Microbracon mellitor**

Barre, S. C. R. 39, 9, 1926.  
Fenton & Dunham, U. S. D. A. Tech.  
B. 112, 66-68, 1929.

iMuesebeck, PUSNM 67; 8, 65-67, 1925.

biWillard, U. S. D. A. Tech. B. 19, 4-11, 1927.

**Microbracon meromyzae**

Gilbertson, S. D. B. 217, 21, 1925.  
Muesebeck, PUSNM 67; 8, 41, 1925.

**Microbracon metacomet** 57-58, *montowesi*  
60-61, *nanus* 65, *nevadensis* 54, *niger*  
73, *nigridorsum* 41-42, *nigropectus* 67,  
*nitidus* 50, *nuperus* 47-48, *oenotherae*  
62-63, *papaipemeae* 63-64, *piceiceps* 81  
Muesebeck, P. U. S. N. M. 67, Art. 8, 1925.

**Microbracon pini**

niMuesebeck, PUSNM 67; 8, 52, 1925.

Taylor, Entom. Amer., n. s., 9, 208, 1929.

ibTaylor, Ent. Amer. 10; 64-66, 1929.

**Microbracon pityophthori** 55-56, *platynotae*  
29-30, *podunkorum* 59-60, *politiventris*  
37-38, *psilocorsi* 40-41, *punctatus* 24-25,  
*pygmaeus* 38-40, *pyralidiphagus* 34-35,  
*quinnipiacorum* 24

Muesebeck, P. U. S. N. M. 67, Art. 8, 1925.

**Microbracon quintilis**

Viereck, Univ. Iowa Stud. Nat. Hist. 11:  
4, 7-8, 1925.

**Microbracon rhyssemati** 80, *rudbeckiae* 45,  
*rufomarginatus* 81, *sanninoideae* 70-  
71, *sancticorum* 33-34, *sesiae* 53-54,  
spp.—host list 82-84, spp.—Key 7-23,  
*sphenophori* 25-26, *sulcifrons* 78

Muesebeck, P. U. S. N. M. 67, Art. 8, 1925.

**Microbracon suspectus**

nBrues, Proc. Amer. Acad. Arts & Sci.  
61, 207-208, 1926.

**Microbracon tachypteri** 68-69, *tenuiceps* 46-  
47, *thurberiphagae* 54-55, *tychii* 51-52  
niMuesebeck, P. U. S. N. M. 67, Art. 8, 1925.

**Microbracon uichancoi**

nCushman, P. U. S. N. M. 76; 25, 17, 1929.

**Microbracon uncas** 43, *variabilis* 69-70, *wa-  
wequa* 78, *xanthonotus* 30-31

iMuesebeck, P. U. S. N. M. 67, Art. 8, 1925.

**Microcalliphora flavifrons**

nAldrich, P. U. S. N. M. 66; 18, 20-21, 1925.

**Microcalyptis new gen., scirpi**

nBraun, Trans. Amer. Ent. Soc. 51, 224,  
225, 1925.

**Microcentrum retinerve (Angular-winged  
katydid)\***

iWatson, Fla. B. 183, 408-409, 1926.

**Microcentrum rhombifolium**

Allard, Science 67, 613-614, 1928.

Allard, Smithsonian R. f. 1928, 577-579, 1929.

Hebard, Trans. Amer. Ent. Soc. 51, 299,  
1925.

**Microcentrum suave**

Hebard, Trans. Amer. Ent. Soc. 51, 299,  
1925.

- Microcerotermes exiguus**  
iSnyder, Sci. Mo. 28, 2, 146, 1929.
- Microcerotermes pilliceus**  
nSnyder, J. Wash. Acad. Sci. 15, 443-444, 1925.
- Microcerotermes silvestrianus**  
niEmerson, Am. Mus. Nat. Hist. B. 57, 545-546, 1928.
- Microcerotermes spp.**  
Snyder, PUSNM 68; 14, 71, 1926.
- Micrococcus laccidifex, rushmorei**  
nBrown, Amer. Mus. Nov. 251, 4-6, 1927.
- Microdon albipilis**  
niCurran, Kans. Univ. Sci. B. 15, 54-55, 1925.
- Microdon appendiculata**  
nCurran, Amer. Mus. Nov. 340, 6-7, 1929.
- Microdon basicornis**  
niCurran, Kans. Univ. Sci. B. 15, 79-80, 1925.
- Microdon batesi**  
nShannon, P. U. S. N. M. 70; 9, 22, 1927.
- Microdon bequaerti**  
nCurran, Amer. Mus. Nov. 340, 3-4, 1929.
- Microdon champlaini**  
niCurran, Kans. Univ. Sci. B. 15, 71-72, 1925.
- Microdon conflictus** 58-60, **diversipilosus** 76, **eutristis** 74-75  
niCurran, Kans. Univ. Sci. B. 15, 1925.
- Microdon (Ubristes) fraudator** 20, **goettei** 19-20; nShannon, PUSNM 70; 9, '27.
- Microdon hutchingsi**  
nCurran, Can. Ent. 59, 89-90, 1927.
- Microdon inappendiculata**  
nCurran, Amer. Mus. Nov. 340, 7, 1929.
- Microdon inarmatus**  
nCurran, Amer. Mus. Novit. 176, 5-6, 1925.
- Microdon iridomyrmex**  
nShannon, Proc. Ent. Soc. Wash. 29, 85-86, 1927.
- Microdon (Ubristes) lacteipennis**  
nShannon, PUSNM 70; 9, 18-19, 1927.
- Microdon liberiensis**  
nCurran, Amer. Mus. Nov. 340, 4-5, 1929.
- Microdon maculatus**  
nShannon, P. U. S. N. M. 70; 9, 21, 1927.
- Microdon manitobensis**  
niCurran, Kans. Univ. Sci. B. 15, 62, 1925.
- Microdon megacephalus**  
nShannon, J. Wash. Acad. Sci. 15, 213, 1925.
- Microdon micromidas**  
nShannon, Proc. Ent. Soc. Wash. 27, 112, 1925.
- Microdon nigrispinosus**  
nShannon, PUSNM 70; 9, 21-22, 1927.
- Microdon ocellaris** 81-83, **pallipennis** 89-90, **pseudoglobosus** 57-58  
niCurran, Kans. Univ. Sci. B. 15, 1925.
- Microdon scolopus** 20-21, **scutellaris** 20  
nShannon, P. U. S. N. M. 70; 9, 1927.
- Microdon tenuifrons**  
nCurran, Amer. Mus. Nov. 340, 5-6, 1929.
- Microdon (Ubristes) trigoniformis**  
nShannon, P. U. S. N. M. 70; 9, 19, 1927.
- Microdon wheeleri**  
nMann, Psyche 35, 168-170, 1928.
- Microdus crossi**  
Earle, Facts about sugar 22, 969, 1927.
- Microgaster scopelosomae**  
nMuesebeck, PUSNM 69; 7, 17-18, 1926.
- Microgaster spp.**  
Holloway, Planter & Sugar Mf. 80, 242, 1928.
- McLaine, Ont. Ent. Soc. R. 57, 22, 1927.
- biParker & Thompson, Ann. Ent. Soc. Amer. 18, 391-392, 1925.
- Microgaster tibialis**  
Baird, Ont. Ent. Soc. R. 59, 39, 1929.
- Ellinger & Sachtleben, Internat. Corn Borer Invest. Sci. R. 1, 118-121, 1928.
- iJones, USDA Tech. B. 98, 16-21, 1929.
- Steenburgh, Ont. Ent. Soc. R. 59, 55-57, 1929.
- Zwölfer, Internat. Corn Borer Invest. Sci. R. 1, 136-138, 1928.
- Microgasterinae—subfamily**  
Muesebeck, PUSNM 69; 7, 4-6, 1926.
- Microlepidoptera**  
Braun, Trans. Amer. Ent. Soc. 51, 183-258, 1925.
- nBraun, Can. Ent. 58, 46-50, 1926.
- biEver, Ann. Ent. Soc. Amer. 19, 237-246, 1926.
- Keifer, Pan Pacific Ent. 4, 129-132, 1928.
- Microlipus falli**  
nHopping, Can. Ent. 57, 206-207, 1925.
- Micromasia caledonia**  
nCurran, Amer. Mus. Novit. 375, 13, 1929.
- Micromus posticus**  
Fluke, Wis. Res. B. 93, 8-9, 1929.
- iMiller, Fla. B. 203, 462, 1929.
- Micromyzus violiae**  
Severin, So. Dak. Ent. R. 15, 13, 1924.

- Micropeza abbreviata*, biannulata  
nCresson, Trans. Amer. Ent. Soc. 52, 261-263, 1926.
- Micropeza californica*  
nVan Duzee, Pan-Pacific Ent. 3: 1, 1, 1926.
- Micropeza distenta*  
nCresson, Trans. Amer. Ent. Soc. 52, 162, 1926.
- Micropeza lineata*  
nVan Duzee, Pan-Pacific Ent. 3: 1, 2, 1926.
- Micropeza planula*, recta, sagittifer  
nCresson, Trans. Amer. Ent. Soc. 52, 261-264, 1926.
- Micropeza* spp.—Key to North American  
VanDuzee, Pan-Pacific Ent. 3: 1, 2-4, 1926.
- Micropeza subrecta*, tabernilla  
nCresson, Trans. Amer. Ent. Soc. 52, 261, 263, 1926.
- Microphalera styxana*  
nSchaus, P. U. S. N. M. 73; 19, 89-90, 1928.
- Microphotographic apparatus*  
iSavage, Sci. Agr. 6, 157, 1926.
- Microphthalma* gen., 1-2, cuzcana 5, disjuncta 3-4; Aldrich, PUSNM 69; 13, 1926.
- Microphthalma michiganensis*  
Aldrich, PUSNM 69; 13, 4-5, 1926.  
Petch & Hammond, Ont. Ent. Soc. R. 56, 89, 1926.
- Microphthalma nigra*  
Aldrich, PUSNM 69; 13, 3, 1926.
- Microphthalma phylophagae*  
Petch & Hammond, Ont. Ent. Soc. R. 55, 25-27, 1925.
- Microphthalma ruficeps* 6, shannoni 5, spp.—key 2-3, virens 6-7  
Aldrich, P. U. S. N. M. 69, Art. 13, 1926.
- Microphylellus adustus* 40, brevicornis 41, flavicollis 41, mineus 41, minor 42-43  
nKnight, Ent. News 40, 1929.
- Microphylellus minuendus*  
nKnight, Proc. Biol. Soc. Wash. 40, 10, 1927.
- Microphylellus nicholi*  
nKnight, Ent. News 40, 42, 1929.
- Microplitis brassicae*  
Viereck, Proc. Ent. Soc. Wash. 27, 138, 1925.
- Microplitis gortynae*  
Baldaf, Ohio J. Sci. 29, 219-221, 1929.
- Microplitis varicolor*  
Viereck, Proc. Ent. Soc. Wash. 27, 138, 1925.
- Microprosopa diversipes*, varicornis  
nCurran, Can. Ent. 59, 256-257, 1927.
- Microrape shilluca*  
niSchaus, Wash. Ent. Soc. Proc. 31, 55, 1929.
- Microrhopala rubrolineata*  
Van Dyke, Pan-Pac. Ent. 1, 173, 174, '25.
- Microscope slides*—Cleaning  
Young, Amer. J. Pub. Health 15, 615, 1925.
- Microsillus*  
nAldrich, P. U. S. N. M. 69, Art. 22, 20, 1926.
- Microsimus* n. gen., luteus  
nAldrich, PUSNM 69; 22, 2-3, 1926.
- Microstigmus* sp.  
iHowes, Nat. Mag. 6, 274, 1925.
- Microstylum gladiator* 205-206, griseum 206, insigne 206, magnum 205, nigritarse 207, pulchrum 205, rubigenis 207, spp.—key 203  
Bromley, Trans. Amer. Ent. Soc. 53, 1927.
- Microstylum vulcan*  
nBromley, Amer. Mus. Nov. 336, 1, 1929.
- Microterys claripennis*  
inCompere, Cal. Univ. Pub. Ent. 4; 8, 216-217, 1928.
- Microterys clauseni*  
niCompere, Univ. Cal. Pub. in Ent. 4, 35-37, 1926.
- Microterys fuscipennis*  
niCompere, Cal. Univ. Pub. Ent. 4, 217-218, 1928.
- Microterys okitsuensis* 38, physokermis 43-44, sp.—key to females 34-35, xanthopsis 41-42, yolandae 39-41  
niCompere, Cal. Univ. Pub. in Ent. 4, 1926.
- Microthrips leucus*  
niHerrick, Ent. News 38, 278-281, 1927.
- Microtipula (Microtipula) atrovelutina*  
nAlexander, Ann. Ent. Soc. Amer. 21: 624-625, 1928.
- Microtipula (Eumicrotipula) iguazuensis*, legitima; nAlexander, Ann. Ent. Soc. Amer. 21: 623-626, 1928.
- Microtrimeria* n. gen., cockerelli  
niBequaert, Psyche 35, 191-198, 1928
- Microtrombidium magnitarsa*  
Miller, Ohio B. 386, 117, 1925.

- Microvelia albolineolata*  
nTorre-Bueno, Bklyn. Ent. Soc. B. 22, 33-34, 1927.
- Microvelia irrasa, oreadis*  
nDrake & Harris, Ohio J. Sci. 28, 274-275, 1928.
- Microvelia pacifica*  
Hoffman, Bklyn. Ent. Soc. B. 20, 132, 1925.
- Microvelia summersi*  
nDrake & Harris, Fla. Ent. 12, 8, 1928.
- Microvelia villosula*  
nTorre-Bueno, Bklyn. Ent. Soc. B. 22, 34-35, 1927.
- Micrutilus flava*  
nGoding, J. N. Y. Ent. Soc. 37, 168, 1929.
- Micrutilus zeteki*  
nGoding, Bklyn. Ent. Soc. B. 23, 139-140, 1928.
- Mictochroa caulea*  
nSchaus, Wash. Ent. Soc. Proc. 31, 48, 1929.
- Mictochroa indigna*  
nDyar, Ins. Insc. Mens. 14, 185, 1927.
- Midara, n. gen., balbalasanga, bengueta*  
nSchaus, Proc. Ent. Soc. Wash. 30, 53, 54, 1928.
- Migration of insects, see also Butterflies—migration*  
Aaron, Sci. Amer. 140, 328-330, Ap. 1929.  
Davidson, Sci. Prog. 21, 641-658, 1927.  
Parman, Ent. News 37, 101-106, 1926.  
iShannon, J. N. Y. Ent. Soc. 34, 199-204, 1926.
- Migratory locust, Rocky Mountain grasshopper\* see Melanoplus spretus*
- Milesia sinensis*  
nCurran, Amer. Mus. Novit. 200, 3-5, 1925.
- Mill insects*  
bDean & Schenk, Internat. Cong. Ent. 4, Tr. 2, 211-228, 1929.  
iGraves, Amer. Miller 53, 279, 1925.  
Mas, Amer. Miller 57, 993, 1929.
- Millipedes*  
Bailey, Animal Life of Carlsbad Cavern, 1928, 183.  
Christie & Cobb, J. Wash. Acad. Sci. 17, 17, 1926.  
iGibson & Twinn, Can. Dept. Agr. B. 112, 73, 1929.  
Horsfall, Penn. St. B. 196, 33, 1925.  
iMacLeod, Penn. St. Ext. C. 122, 14-15, 1929.  
iMote, Oreg. C. 65, 17, 1926.
- Severin, So. Dak. Ent. R. 15, 58, 1924.  
Thomas, Pa. St. Col. B. 204, 37, 1926.  
Thomas, Pa. St. Col. B. 243, 29, 1929.
- Miltogrammini—North America*  
iAllen, PUSNM 68; 9, 1926, 104 p.
- Miltoura siva*  
Comstock, So. Cal. Acad. Sci. B. 24, 37-38, 1925.
- Mimeceton antennatus*  
nMann, J. Wash. Acad. Sci. 16, 451, 1926.
- Mimegrella niveimana, thaiensis*  
nCresson, Trans. Amer. Ent. Soc. 52, 269-270, 1926.
- Mimicry in insects, see Insects—Mimicry*
- Mimogonus gen.*  
Notman, P. U. S. N. M. 67, Art. 11, 3, 1925.
- Mimorista flavidissimalis*  
Hamlin, Pan-Pac. Ent. 2, 97-100, 1926.
- Mindarus abietinus*  
Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 48, 1926.
- Mineola indigenella nebulella (Pecan case bearer)\**  
Boyd, Ga. St. Bd. Ent. B. 70, 15-16, 1928.
- Mineola scitulella*  
Hungerford, Ida. B. 160, 22, 1928.  
— Idaho B. 149, 28-29, 1927.  
— Idaho B. 164, 29, 1929.
- Mineola vaccinii (Cranberry fruit worm)\**  
Brown, Oreg. B. 225, 19-20, 1927.  
Crowley, Wash. B. 230, 24-25, 1929.
- Minettia aibonito*  
nCurran, Amer. Mus. Nov. 220, 14, 1926.
- Minettia argentiventris* 14, *brunneicosta* 16, *infuscata* 14-15  
nMalloch, P. U. S. N. M. 73; 23, 1928.
- Minettia mona*  
nCurran, Amer. Mus. Nov. 220, 13-14, 1926.
- Minettia nigropunctata*  
nMalloch, P. U. S. N. M. 73; 23, 13, 1928.
- Minettia ordinaria*  
iMalloch, Proc. Ent. Soc. Wash. 29, 184, 1927.
- Minettia philippinensis*  
nMalloch, P. U. S. N. M. 74; 6, 27-28, 1929.
- Minettia quadrata* 15-16, *tucumanensis* 15, *verticalis* 17  
nMalloch, P. U. S. N. M. 73; 23, 1928.
- Minettiella*  
nMalloch, P. U. S. N. M. 74; 6, 27, 1929.
- Minettioides, n. sub. gen.*  
nMalloch, P. U. S. N. M. 74; 6, 65, 1929.



- \*Mining scale, *see* *Howardia biclavus*
- Mint flea beetle, *see* *Longitarsus menthaphagus*
- Mint insects  
     Sievers, U. S. F. B. 1555 rev. Feb. 1929, 23-24.
- Minuticornicus n. gen., *gravidis*  
     nKnowlton, Fla. Ent. 12; 4, 59, 60-62, 1928.
- Miodera eureka  
     nBarnes & Benjamin, Can. Ent. 58, 307, '26.
- Miodineutes heeri, *oeningenensis*  
     niHatch, Brklyn Ent. Soc. B. 22, 95-96, '27.
- Miology—"Inside History"  
     — J. N. Y. Ent. Soc. 34: 1, 69-70, 1926.
- Miotropis clisiocampae  
     Balduf, Ohio J. Sci. 29, 227-228, 1929.
- Miranda aurantica  
     Herrick, Rur. N. Y. 84, 1432, 1925.
- Mirax africana  
     nBrues, Proc. Amer. Acad. Arts & Sci. 61, 292-293, 1926.
- Miridae  
     nBlatchley, Ent. News 37, 163-174, 1926.  
     Johnston, Bklyn. Ent. Soc. B. 24: 217-219, 1929.  
     Knight, Can. Ent. 57, 181-182, 1925.  
     Knight, Can. 59, 34-44, 1927.  
     Knight, Bklyn. Ent. Soc. B. 22, 98-105, 1927.  
     bKnight & McAtee, Proc. U. S. Nat. Mus. 75: 13, 1929, 27 p.
- biWatson, Ohio Biol. Surv. B. 16, 1928, 44 p.
- Miris dolabratus (Meadow plant bug)\*  
     Cooper, Ky. R. 39, 19, 1927.
- liGarman, Ky. B. 265, 32-44, 1926.  
     Watson, Ohio Biol. Surv. B. 16, 28, 1928.  
     Fernald, Applied Ent. ed. 2, 181, 1926.
- Mirotermes gen.  
     Snyder, PUSNM 68, 14, 59-60, 1926.
- Mirotermes (Cubitermes) banski  
     niEmerson, Am. Mus. Nat. Hist. B. 57, 522-523, 1928.
- Mirotermes (Mirotermes) bolivianus  
     nSnyder, PUSNM 68, 14, 60-61, 1926.
- Mirotermes calvus 470-471, comstocki 523-525, congoensis 519-520, gaigei 516-517, grandilabius 505, kemneri 509, langi 537-539, malelaensis 535-537, nia-puensis 529-531, orthocephus 415-542, orthognathus 525-526, osborni 472-473, quadriceps 503-505  
     niEmerson, Am. Mus. Nat. Hist. B. 57, 1928.
- Mirotermes (Spinitermes) robustus  
     niSnyder, PUSNM 68; 14, 62-64, 1926.
- Mirotermes (Cubitermes) schmidti, 520-521, sjostedti 471, wasmanni 533-535  
     niEmerson, Am. Mus. Nat. Hist. B. 57, 1928.
- Miscodera arctica  
     Thorington, Ent. News 38, 179, 1927.
- Misogada brioca  
     nSchaus, P. U. S. N. M. 73; 19, 21, 1928.
- Mississippi flood area—Insect problems  
     Miss. St. Pl. Bd. Q. B. 7: 1, 21-22, 1927.
- Mistletoe insects  
     Engelhardt, Brklyn. Ent. Soc. B. 22, 253, 1927.
- Misumena vatia  
     iWalker, Flower Grower 15, 177, 1928.
- Mites  
     iChandler, Animal parasites ed. 3, 331-348, 1925.  
     Dean, Kans. St. Hort. Soc. Bien. R. 39, 31-35, 1928.  
     Pearse, Elisha Mitchell Sci. Soc. J. 43, 175-180, 1928.
- Mites on poultry  
     Goodeard, West. Farm. Life, 31; 17, 20-21, 1929.  
     Kempster, Mo. Farm. 21, 341, 1929.  
     Sawyer & Worley, Wash. Pop. B. 5-W, n.s., 30-31, 1927.  
     Thompson, Ill. Farm. 77, 494, 1929.  
     Weaver, Dairym. News 13; 29, 13, 1929.  
     Weaver, Dairym. Rev. 7; 8, 15, 1929.
- Mites and occupational disease  
     Thompson, J. State Med. 33, 419-427, 1925.
- Mitocybe—n. gen., auriportae  
     niCook & Loomis, P. U. S. N. M. 72; 18, 19-21, 1928.
- Mixochlorus elegans  
     nFisher, P. U. S. N. M. 65, Art. 9, 161, 1925.
- Mixogaster delongi  
     nJohnson, Psyche 32, 301, 1925.
- Mixogaster rarior  
     nShannon, Proc. Ent. Soc. Wash. 27, 111-112, 1925.
- Mixorthezia, n. gen., cubana  
     niMorrison, J. Agr. Res. 30, 151-152, 1925.
- Mnemosyne cubana  
     iMyers, Psyche, 36, 284-286, 1929.
- Molanica flavicornis  
     Hisaw, Ecology 6, 125, 1925.
- Molanna flavicornis  
     Dodds & Hisaw, Ecology 6, 125, 1925.

- Mole cricket**, Porto Rico, *see* *Scapteriscus vicinus*
- Mole crickets**  
 Watson, Fla. P. B. 372, 1925. 2 p.  
 Watson, Fla. Dept. Agr. Quar. B. 39:3, 50-52, 1929.  
 — Nature Mag. 6, 363, 1925.
- Molophilus auricomus**  
 nAlexander, Ins. Insc. Mens. 14, 115-117, 1926.
- Molophilus floridensis**  
 nAlexander, Can. Ent. 36, 230, 1925.
- Molophilus fuscopleuralis**  
 nAlexander, Ann. Ent. Soc. Amer. 20, 317-318, 1927.
- Molophilus gymnocladus**  
 nAlexander, Ent. News 39, 183, 1928.
- Molophilus huron, laricicola**  
 nAlexander, J. N. Y. Ent. Soc. 37, 55-57, '29.
- Molophilus lobiferus**  
 niAlexander, P. U. S. N. M. 68, Art. 4, 11, 1925.
- Molophilus monostylus**  
 nAlexander, Ent. News 39, 182, 1928.
- Molophilus (Dasymolophilus) niphadiae**  
 nAlexander, Can. Ent. 36, 229-230, 1925.
- Molophilus obediens**  
 nAlexander, Ann. Ent. Soc. Amer. 20, 316-317, 1927.
- Molophilus pallatangensis**  
 nAlexander, Ann. Ent. Soc. Amer. 22, 787, 1929.
- Molophilus paludicola**  
 nAlexander, J. N. Y. Ent. Soc. 37, 57-58, '29.
- Molophilus paraguayanus**  
 nAlexander, Ann. Ent. Soc. Amer. 22, 787-788, 1929.
- Molophilus paucispinosus**  
 niAlexander, Ann. Ent. Soc. Amer. 18, 351, 1925.
- Molophilus pennatus**  
 nAlexander, Ann. Ent. Soc. Amer. 20, 318, 1927.
- Molophilus sackenian**  
 nAlexander, Pan-Pacific Ent. 3, 78-79, 1926.
- Molophilus severus**  
 niAlexander, Ann. Ent. Soc. Amer. 18, 350-351, 1925.
- Molophilus sicarius**  
 nAlexander, J. N. Y. Ent. Soc. 37, 98-99, 1929.
- Molophilus substylifer**  
 nAlexander, Ann. Ent. Soc. Amer. 22, 786, 1929.
- Molophilus titan**  
 nAlexander, J. N. Y. Ent. Soc. 36, 58-59, 1928.
- Molophilus tucumanus**  
 nAlexander, J. N. Y. Ent. Soc. 37, 97-98, 1929.
- Molorchus longicollis**  
 Hardy & Preece, Pan. Pac. Ent. 4; 2; 64-65, 1927.
- Monachulus affinis, viridanus**  
 nFall, Can. Ent. 59, 139-140, 1927.
- Monanthia monotropidia**  
 Drake, Ann. Carnegie Mus. 16, 375, 1926.
- \*Monarch butterfly, see** *Danaus archippus*
- Monardia canadensis**  
 nFelt, Can. Ent. 58, 267-268, 1926.
- Monarthropalpus buxi (Boxwood leaf miner)\***  
 iBritton & Zappe, Conn. B. 292, 162, 1927.  
 Felt, J. Ec. Ent. 20, 66, 1927.  
 H. L. H., Flor. Exch. 63, 297, 1926.
- biHamilton, Md. B. 272, 143-176, 1925.**  
**iHamilton, N. J. C. 179, 3-8, 1926.**  
 Smith, Fisher and Guyton, J. Ec. Ent. 21, 295-301, 1928.
- Monarthrum dentigerum, scutellare**  
 Doane & Gilliland, J. Econ. Ent. 22, 915-921, 1929.
- Monecphora bicincta**  
 Myers, Psyche 35, 120, 1928.
- Monecphora flavifascia**  
 nMetcalf, Psyche 32, 96-97, 1925.
- Moneilema corpulenta**  
 nKnaus, Pan-Pacific Ent. 1, 183, 1925.
- Moneilema crassa**  
 Hamlin, Pan-Pacific Ent. 2, 104-105, 1926.
- Moneilema opuntiae 1-2, rugosipennis 2-3, vittata 3-4**  
 nFisher, Proc. Ent. Soc. Wash. 30, 1928.
- Monellia costalis**  
 Leiby, N. C. Dept. Agr. B. Feb. 1925, 37.
- Monieziella angusta, longipes**  
 Miller, Ohio B. 386, 153-154, 1925.
- Monobelus** gen. 209, **fasciatus** 209, **flavidus** 209, **irroratus** 211, **lateralis** 209-210, **niger** 210-211, **turquinensis** 210  
 nMetcalf & Bruner, Brklyn. Ent. Soc. B. 20, 1925.

- Monobia quadridens**  
Rau, St. Louis Acad. Sci. Tr. 25, 199, 1927.
- Monoceromyia austeni**  
nShannon, J. Wash. Acad. Sci. 17, 45, 1927.
- Monoceromyia bakeri**  
nShannon, Ins. Insc. Mens. 13, 55-56, 1925.
- Monoceromyia hardyi** 44-45, **hervebazini** 48, **salvazai** 47, **wallacei** 47-48, **wiedemanni** 47  
nShannon, J. Wash. Acad. Sci. 17, 1927.
- Monoceromyia wui**  
nShannon, Ins. Insc. Mens. 13, 56, 1925.
- Monochamus maculosus**  
iKeen, Cal. Dept. Nat. Res. Div. For. B. 7, 64-68, 1928.
- Monochamus marmorator** (Round-headed borer)  
Bailey, Comm. Agr. Vt. Bien. R. f. 1926, 55-56.  
Peirson, Me. For. Serv. B. 5, 66, 1927.
- Monochamus notatus** ("Pine bug")  
iDunn, Canada Lumberman 49; 5, 31, '29.
- Monochamus** sp.  
iDunn, Canada Lumberman 46, 133, 1926.  
Graham, Ecology 6, 403, 1925.  
Peirson, Me. For. Serv. B. 5, 105, 1927.  
Swaine, Canada Dept. Agr. Pamph. 97, 1928, 12 p.
- Monochamus scutellatus** ("Spruce bug")  
iDunn, Can. Lumberman 49; 5, 31, 1929.
- Monochamus titillator** (Southern pine sawyer)\*  
Peirson, Me. For. Serv. B. 5, 106, 1927.  
St. George, U. S. F. B. 1582, 11, 1929, 11.  
iSt. George & Beal, U. S. F. B. 1586, 13-15, 1929.
- Monocrepidius bifoveatus**  
iStahl & Scaramuzza, Trop. Pl. Res. Found. B. 10, 13-15, 1929.
- Monocrepidius delicatus** 55, **difformis** 56, **ferruginosus** 54  
nFall, Can. Ent. 61, 1929.
- Monocrepidius fuscus**  
nBlatchley, Can. Ent. 57, 163-164, 1925.
- Monocrepidius** (**Heteroderes**) **planidiscus**  
nFall, Can. Ent. 61, 56, 1929.
- Monocrepidius vespertinus** (Tobacco wireworm)  
iWatson, Fla. Dept. Agr. Quar. B. 39: 3; 89-90, 1929.
- Monocetus juniperinus**  
Conn. B. 365, 336, 1925.
- Monodontomerella** n. gen., **longipilum**  
Girault, Ins. Insc. Mens. 13, 98, 1925.
- Monodontomerus aereus**  
ilhBurgess & Crossman, U. S. D. A. Tech. B. 86, 77-80, 1929.  
bMuesebeck & Dohanian, U. S. D. A. B. 1487, 19-20, 1927.
- Monodontomerus** sp.  
Rau, St. Louis, Acad. Sci. Tr. 25, 222-225, 1927.
- Monogonogastra** sp.  
Flanders, Pan-Pacific Ent. 2, 157, 1926.
- Monohammus**, *see* **Monochamus**
- Monoleuca angustilinea**  
nDyar, J. Wash. Acad. Sci. 17, 548, 1927.
- Monoleuca disconcolorata**  
nBarnes & Benjamin, Pan-Pac. Ent. 1, 126, 1925.
- Monoleuca erectifascia**  
nDyar, Ins. Insc. Mens. 13, 15, 1925.
- Monoleuca fieldi**  
nBarnes & Benjamin, Pan-Pac. Ent. 1, 126, 1925.
- Monomorium howense**  
inWheeler, Amer. Acad. Arts & Sci. Proc. 62; 4, 138-139, 1927.
- Monomorium minimum**  
iCreighton, Psyche 35, 52, 1928.
- Monomorium minutum** (Black house ant)  
iAaron, Sci. Amer. 134, 34, 1926.
- Monomorium pharaonis** (Red ant)  
Davis, Ind. C. 150, 14-16, 1928.  
Guyton, Pa. Dept. Agr. Gen. B. 432, 5-6, 1927.  
Macintosh, Farmer, St. Paul 43, 937, 1925.  
Niles, Citrus Industry 4; 8, 7, 1923.  
Popenoe, Sci. Amer. 136: 2, 130, 1927.  
iWoods, Sci. Amer. 134, 200-201, 1926.
- Monomorium sanguinolentum**  
niWheeler, Amer. Acad. Arts & Sci. Proc. 62; 4, 135-138, 1927.
- Monomorium** spp.  
Maheux, Quebec Soc. Protec. Pl. R. 18, 106, 1926.
- Mononchus longus**  
niBThorne, Amer. Micro. Soc. Trans. 48, 191-195, 1929.
- Mononchus** sp.  
H. T. M., Pineapple News 1, 77-78, 1927.
- Monophadnoides rubi** (Raspberry sawfly)\*  
Britton, Conn. B. 294, 297, 1928.

- iGarlick, Dom. Canada Agr. B. 114, 19-20, 1929.  
 Moore, Wis. Ext. C. 187, 25, 1925.
- Monophasinus caryae**  
 Peirson, Me. For. Serv. B. 5, 45, 1927.
- Monophlebidus**—n. gen.  
 nMorrison, Proc. Biol. Soc. Wash. 40, 104, 1927.
- Monophlebinæ**  
 bVayssiere, Internat. Cong. Ent. 4, Tr. 2, 81-86, 1929.
- Monoptiloba** sp. (Gall worm)  
 Watson, Fla. Dept. Agr. Quart. B. 39: 3, 63, 1929.
- Monotoma avara**  
 nBlatchley, Can. Ent. 60, 65-66, 1928.
- Monoxia consputa, sordida**  
 Brisley, Trans. Amer. Ent. Soc. 51, 172, 1925.
- Monterey pine aphis**, *see* **Essigella californica**
- Monterey pine engraver**, *see* **Ips radiatae**
- Moodna setonella**  
 nMcDunnough, Can. Ent. 59, 270, 1927.
- Mordwilkoja vagabunda** (Vagabond gall)  
 iGryse, Can. Dept. Agr. Ent. Br. Pam. 47 n. s., rev. ed. 7, 1925.  
 Oestlund & Hottes, Ann. Ent. Soc. Amer. 19, 75-81, 1926.  
 iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 52, 1926.
- Morellia podagrica**  
 Aldrich, Ent. News 37, 119-120, 1926.
- Morellia pulchra**  
 nCurran, Can. Ent. 58, 213-215, 1926.
- Morelos fruit fly**, *see* **Anastrepha ludens**
- Mormidea angustata**  
 Morrill, Cal. Dept. Agr. Sp. Pub. 73, 79, 1927.
- Mormidea prominula**  
 Essig, Pan. Pacific Ent. 4, 128, 1928.
- \*Mormon cricket**, *see* **Anabrus simplex**
- Morpha cora**  
 nSchaus, Proc. Ent. Soc. Wash. 30, 46-47, 1928.
- Morpho fruhstorferi**  
 Porter, Ent. News 38, 173, 1927.
- Morrisonia deplogramma**  
 Barnes & Benjamin, Proc. Ent. Soc. Wash. 27, 125, 1925.
- Morse, Edward Sylvester**  
 Wiley, Science 63, 280, 1926.
- Mosquito destroyer**, *see* **Pelorempis americana**
- Mosquitoes**  
 iBotsford, Conn. B. 265, 331-335, 1925.  
 Botsford, Conn. B. 275, 315-321, 1926.  
 Botsford, Conn. B. 305, 753-761, 1929.  
 iBrayer & Dandsill, Hygeia 6, 328-331, 1928.  
 Britton & Botsford, N. J. Mos. Exterm. Assoc. Proc. 15, 146-150, 1928.  
 Bromley, J. Ec. Ent. 19, 871, 1926.  
 Butchard, N. J. Mos. Exterm. Assoc. Proc. 15, 107-109, 1928.  
 Chamberlain, Panama Canal Zone Health Dept. R. f. 1924, 12-14, 1925.  
 Chamberlain, P. C. Health Dept. R. f. 1926, p. 17-22.
- niChamplain, Nat. Mag. 14, 41-43, Je. 1929.
- iChandler, Animal Parasites ed. 3, 424-462, 1925.  
 Chicago-Sanitary Dist. Mosquito facts, 1926, 48 p.  
 Colton, P. R. Health Rev. 1:10, 39-42, 1926.
- iCurran, Nat. Hist. 29: 45-49, 1929.  
 Davis, Amer. J. Hyg. 6, 23-35, 1926.
- iDavis, Ind. C. 150, 18-21, 1928.  
 Dengler, Union Co. N. J. Mos. Exterm. Assoc. R. f. 1929, 4-9.  
 Doane, J. Ec. Ent. 20, 682-684, 1927.  
 Dunham, Med. Surg. 62: 33-38, 1928.  
 Dyar & Shannon, Ins. Insc. Mens. 13, 66-87, 1925.
- iEssex Co., N. J. Mos. Exterm. Com. R. f. 1928, 31 p.  
 Felt, N. Y. St. Mus. B. 274, 30-34, 1928.  
 Gibson, N. J. Mos. Exterm. Assoc. Proc. 13, 54-59, 1926.  
 Gibson, Ottawa Dist. Mos. Control Com. R. f. 1929, 15 p.  
 Guyton, Pa. Dept. Agr. Gen. B. 432, 16-17, 1927.
- Hanson & Dunn, Mil. Surg. 57, 232-241, 1925.  
 Headlee, N. J. R. for 1924, 350-371, 1925.  
 Headlee, N. J. Mos. Exterm. Assoc. Proc. 15, 127-130, 1928.
- iHeadlee, N. J. R. 49: 177-179, 1928.  
 iHeadlee & Miller, N. J. R. 47, 237-254, 1927.
- Hornig, N. J. Mos. Exterm. Assoc. Proc. 14, 119-121, 1927.  
 Howard, Hygeia 1: 2, 80-84, 1923.

**Mosquitoes** *Cont'd*

- Howard, N. J. Mos. Exterm. Assoc. Proc.  
12, 6-16, 1925; 13, 6-19, 1926; 15,  
6-24, 1928; 16, 6-28, 1929.
- Howard, Amer. J. Pub. Health 16: 12,  
1210-1214, 1926.
- iHungerford, Kans. St. Bd. Agr. Bien.R.  
24, 89-91, 1924.
- Jackson, Amer. J. Pub. Health, 15, 131-  
133, 1925.
- Jackson, et al, Am. J. Pub. Health 16,  
258-262, 1926.
- Jackson, N. J. Mos. Exterm. Assoc. Proc.  
15, 115-126, 1928.
- Jordan, Colliers' 76: 30, 11, 18, 1925.
- LePrince, Amer. City, 32, 62, Jan. 1925.
- LePrince, Am. J. Pub. Health 14, 1035-  
1037, D. 1924.
- iLePrince, Hygeia 3, 255-259, 1925.
- LePrince, Munic. & County Engin, 67,  
221-223, N. 1924.
- LePrince, So. Med. J. 18, 465-466, 1925.
- Leslie, N. J. Mos. Exterm. Assoc. Proc. 12,  
74-77, 1925; 15, 100-106, 1928.
- Lipman, N. J. Mos. Exterm. Assoc. Proc.  
13, 96, 1926; 15, 109-114, 1928.
- Lipman, N. J. R. 46, 25-26, 1926.
- Lipman, N. J. R. 49, 36-38, 1928.
- Marlatt, USDA Ent. R. f. 1929, 27-28.
- Maurer, Brooklyn Daily Times, Aug. 23,  
1925.
- Maurer, Larchmont Times June 25, 1925.
- iMiller, Am. City, 32: 512-514, May, 1925.
- Miller, Guide to Nat. 19: 4, 63-64, 1926.
- Miller, N. J. Mos. Exterm. Assoc. Proc. 15,  
35-44, 1928; 16, 28-38, 1929.
- Miller, N. J. R. 49: 181-189, 1928.
- Miller, N. J. R. f. 1926-1927, 151-156,  
1928.
- Miller, N. J. R. 50, 133-142, 1929.
- Motherwell, Can. Min. Agr. R. f. 1926,  
103.
- Nyhen, Brookline, Mass., Bd. Health R.  
f. 1924, 337-340, 1925; f. 1925, 167-  
168, 1926.
- Parfentjev, J. Ec. Ent. 18, 839-840, 1925.
- Peterson, N. J. Mos. Exterm. Assoc. Proc.  
15; 45-53, 1928.
- iReiley, Atlantic Co. Mos. Exterm. Com.  
R. 13, 27, 1925; 14, 24, 1926.
- Rosenau, Preventive Med. ed. 5, 279-  
298, 1927.
- bRudolfs, N. J. Mos. Exterm. Assoc. Proc.  
13, 33-54, 1926; 15, 55-77, 1928.
- Rudolfs & Lackey, Am. J. Hyg. 9, 160-180  
1929.
- Sammis, N. J. Mos. Exterm. Assoc. Proc.  
16, 117-119, 1929.
- Shedaker, N. J. Mos. Exterm. Assoc. Proc.  
14, 126-136, 1927; 15, 150-154, 1928.
- Skinner, N. J. Mos. Exterm. Assoc. Proc.  
14, 121-126, 1927; 15, 155-160, 1928.
- Slate, Conn. St. B. 274, 194-195, 1926.
- Slate, Conn. St. B. 298, 120, 1928.
- Smith, N. J. Mos. Exterm. Assoc. Proc.  
12, 109-110, 1925.
- Stringer, Valley Farmer & Citrus Gr. 4:  
1-3, 3, 1926.
- Tarbett, Tex. St. J. Med. 20, 442-444, 1924.
- Taylor, N. J. Mos. Exterm. Assoc. Proc.  
13, 108-109, 1926.
- Terry, N. J. Mos. Exterm. Assoc. Proc.  
12, 78, 1925; 13, 89-96, 1926.
- Tipping, N. J. Mos. Exterm. Assoc.  
Proc. 13, 118-121, 1926.
- Tubby, N. J. Mos. Exterm. Assoc. Proc.  
12, 104, 1925.
- iUnion County, N. J. Mos. Exterm.  
Comm. R. f. 1928, 86 p.
- iVan Derwerker, Union Co. Mos. Exterm.  
Assoc. R. f. 1929, 10-22.
- Wilkinson, N. J. Mos. Exterm. Assoc.  
Proc. 13, 114-118, 1926.
- Wolman, Amer. J. Pub. Health 15, 829,  
1925.
- iOttawa Dist. Mos. Com. R. f. 1928, 12p.
- Mosquitoes—Aeroplane dusting**
- Clayton, Manufacturers Rec. 86, 89-90,  
1924, Dec. 4.
- Hewitt, Agr. Gaz. Can. 6, 877, 1919.
- King & Bradley, U. S. D. A. Dept. C.  
367, 1926, 15 p.
- Morse, N. J. Mos. Exterm. Assoc. Proc.  
13, 80-83, 1926.
- Steele, Manuf. Rec. 87, 81-83, Feb. 17,  
1925.
- ibWilliams & Cook, U. S. Pub. Health R. 42,  
459-480, 1927.
- Mosquitoes and fish**
- B. A. W., Amer. J. Pub. Health 16, 656,  
1925.
- iHildebrand, U. S. Pub. Health B. 153, 1925,  
13p.
- iJordan, Sci. Amer. 134, 296, 1926

- iJordan, Smith s. R. for 1926, 361-368, '27.  
Matheson & Hinman, Am. J. Hyg. 9, 188-191, 1929.  
Myers, Copeia No. 166, 4-5, N. Y. May, '28.
- Mosquitoes of the Americas**  
ibDyar, Carnegie Inst. Wash. Pub. 387, 1928, 616 p.
- Mosquitoes—Anti-mosquito Assoc. Fla.**  
Fee, N. J. Mos. Exterm. Assoc. Proc. 16, 63-68, 1929.
- Mosquitoes—Appliances for fighting**  
Brooks, N. J. Mos. Exterm. Assoc. Proc. 16, 40-46, 1929.
- Mosquitoes—Arctic region**  
iAtkins, National Spectator, Feb. 13, 1926, 41.
- Mosquitoes—Barranquilla, Colombia**  
iDunn, Amer. J. Hyg. 6, 1-18, J. l. Sup. 1926.
- Mosquitoes—Brazil**  
iDavis, Amer. J. Hygiene, 6, Mar. supp. 23-35, 1926.
- Mosquitoes—Breeding places**  
Ginsburg, N. J. Mos. Exterm. Assoc. Proc. 14, 52-61, 1927.
- ibRudolfs & Lackey, Amer. J. Hyg. 9; 1, 160-180, 1929.  
Rudolfs, Internat. Cong. Ent. 4, Tr. 2, 945-959, 1929.
- Mosquitoes—British Columbia**  
ibHearle, Nat. Res. Council, Canada R. 17, 1926, 96 p.  
Hearle, Ent. Soc. B. C. Proc. 24, 11-19, 1927.
- Mosquitoes—California**  
iFreeborn, Cal. Univ. Pubs. Ent. 3: 5, 333-460, 1926.
- Mosquitoes—Canada**  
Gibson, N. J. Mos. Exterm. Assoc. Proc. 14, 110-115, 1927; 15, 136-146, 1928; 16, 102-120, 1929.  
iGibson & Twinn, Can. Dept. Agr. B. 112, 15-17, 1929.  
Hearle & Twinn, Can. Dept. Agr. Ent. Br. C. 62, 1928, 4 p.  
Motherwell, Can. Min. Dept. Agr. R. f. 1929, 128.
- Mosquitoes—Canal Zone**  
bCurry, Amer. J. Trop. Med. 5, 1-16, 1925.
- Mosquitoes—Chicago**  
Skinner, N. J. Mos. Exterm. Assoc. Proc. 13, 86-89, 1926.
- Mosquitoes—Coastal marshes**  
—N. H. B. 238, 21, 1929.
- Mosquitoes—Colombia**  
Dyar, Ins. Insc. Mens. 13, 21, 1925.
- Mosquitoes—Connecticut**  
Botsford, N. J. Mos. Exterm. Assoc. Proc. 13, 85-86, 1926; 14, 115-117, 1927; 16, 120-121, 1929.  
Botsford, Conn. B. 285, 265-275, 1927.  
Botsford, Conn. B. 294, 291-296, 1928.  
iSlate, Conn. B. 291, 95, 1927.
- Mosquitoes—Cooperative control work**  
Van Note, Proc. N. J. Mos. Exterm. Assoc. 12, 93-94, 1925.
- Mosquitoes—Detecting apparatus**  
Headlee, N. J. Mos. Exterm. Assoc. Proc. 15, 160-166, 1928.
- Mosquitoes—Ecuador**  
Dyar, Ins. Insc. Mens. 13, 27, 1925.
- Mosquitoes—Fla.**  
Fee, N. J. Mos. Exterm. Assoc. Proc. 16, 63-68, 1929.
- Mosquito survey**  
Moznette, Fla. St. Pl. Bd. Quar. B. 11: 1, 7-10, 1926.
- Mosquitoes—Ga.**  
Kudo, Anatom. Record 31, 315, 1925.
- Mosquitoes—Golf course**  
LePrince, U. S. Golf Assoc. Green Sec. B. 6, 120-122, 1926.
- Mosquitoes—Haiti**  
ibRoot, Amer. J. Hyg. 7, 463-469, 1927.
- Mosquitoes—Hibernation**  
Frost, Brooklyn Ent. Soc. B. 24, 223, 1929.
- Mosquitoes—Hypopygia**  
biDavis, Am. J. Hygiene 6, Mar. Suppt. 1926, 22 p.
- Mosquitoes—Identification of larvae**  
Russell, Amer. Jour. Hygiene 5, 149-174, 1925.
- Mosquitoes—In flight off shore**  
—U. S. Nav. Med. B. 24: 691-692, 1926.
- Mosquitoes—Immunity to bird malaria**  
Huff, J. Parasitol. 14, 131-132, 1928.
- Mosquitoes—Island of Corregidor**  
Simmons, Mil. Surg. 64, 906-911, 1929.
- Mosquitoes—Isthmus of Panama—Anopheles**  
—U. S. Naval Med. B. 26, 754-760, 1928.
- Mosquitoes—Jamaica**  
Gowdey, Jamaica Dept. Agr. Ent. B. 4, 110, 1926.

**Mosquitoes—Lower Manhattan**

——N. Y. Zool. Soc. B. 27: 4, 90-91,  
N. Y. 1924.

**Mosquitoes—Larvae—Control with oil**

B. A. W., Amer. J. Pub. Health 15,  
829, 1925.

Ginsburg, N. J. R. 49: 179-180, 1928.

Green, Amer. J. Pub. Health, 15, 219-  
222, 1925.

**Mosquitoes—Larvae—Food**

Howard, N. J. Mos. Exterm. Assoc.  
Proc. 15, 18-19, 1928.

Rudolfs, Proc. N. J. Mos. Exterm.  
Assoc. 12, 25-30, 1925.

——Amer. Prod. Grow. 4: 7, 15, 1929.

**Mosquitoes—Larvae—Phototropism—****Food effect**

Rudolfs & Lackey, Amer. J. Hyg. 10,  
245-252, 1929.

**Mosquito larvae—Spadefoot toad**

ibBarber, U. S. Pub. Health R. 42: 3189-  
3193, 1927.

**Mosquito larvicides—Borax**

Ginsburg, N. J. Mos. Exterm. Assoc.  
Proc. 15, 53-61, 1928.

Matheson & Hinman, Amer. J. Pub.  
Health 8, 293-296, 1928.

**Mosquitoes—Legislation**

Stallman, N. J. Mos. Exterm. Assoc.  
Proc. 16, 68-74, 1929.

**Mosquitoes—Louisiana**

ibBeyer, La. St. Bd. Health Quar. B. 14,  
55-84, 1923.

**Mosquitoes—Manitoba**

Mitchener & Criddle, Ont. Ent. Soc.  
R. 59, 25, 1929.

**Mosquitoes—Microsporidia parasitic in**

Kudo, Biol. Bul. 48: 2, 112-127, 1925.

**Mosquitoes—Montana**

Cooley, Mont. B. 200, 5-7, 1927.

Dyar, P.U.S.N.M. 75: 23, 1-8, 1929.

Linfield, Mont. R. 34, 91-93, 1927.

Linfield, Mont. R. 35, 32-34, 1929.

**Mosquitoes—Nassau Co., N. Y. 1924**

Sammis, Proc. N. J. Mos. Exterm.  
Asoc. 12, 62-65, 1925.

**Mosquitoes—N. H.**

ibLowry, N. H. B. 243, 1929, 23 p.

**Mosquitoes—N. J.**

Butchard, N. J. Mosquito Exterm.  
Assoc. Proc. 13, 84-85, 1926.

Headlee, N. J. B. 437, 1926, 8 p

Headlee, N. J. Mos. Exterm. Assoc.  
Proc. 13, 20-27, 1926.

Headlee, Amer. Cranberry Grow. As-  
soc. Proc. 58, 12-15, 1927.

Headlee, & Miller, N.J.R. 46, 433-439,  
1925; R. f. 1926-27, 149-151, 1928.

Lipman, N.J.R. 47, 21-22, 1926, 1927.

Miller, Amer. Jour. Pub Health 15, 736,  
1925.

**Mosquitoes—New Orleans**

ibViosca, Proc. N. J. Mos. Exterm. As-  
soc. 12, 34-49, 1925.

**Mosquitoes—N. Amer.**

Matheson, Handbook Mos. No. Amer.  
1929, 268 p.

Walton, Proc. Ent. Soc. Wash. 9, 188,  
1929.

**Mosquitoes—Nova Scotia**

ibBrittain, N. S. Dept. Nat. Res. B. 12,  
102-103, 1927.

**Mosquitoes—Ottawa**

Twinn, Can. Ent. 58, 108-111, 1926.

bTwinn, Ont. Ent. Soc. R. 57, 12-17,  
1927.

**Mosquitoes—Panama Canal and malaria**

Chamberlain & Curry, Panama Canal  
Zone Health Dept. R. f. 1925, 13-21,  
1926.

Dyar, Ins. Insc. Mens. 13, 101-195, 1925.

Dyar, Ins. Insc. Mens 14, 111-112, 1926.

**Mosquitoes—Pensacola, Fla.**

Phelps, U. S. Naval Med. B. 24, 691-  
692, 1926.

**Mosquitoes—Plasmochin—Effect on**

Barber, et al, U. S. Pub. Health R. 44,  
1409-1420, 1927.

**Mosquitoes—Pupae**

Taylor, J. Morphol. 44, 313-339, 1927.

**Mosquitoes—Quantico, Va. Paris green**

Garton, U. S. Naval Med. B. 26, 747-  
754, 1928.

**Mosquitoes—Quebec**

Twinn, Quebec Soc. Protec. Pl. R. 18,  
84-92, 1925-1926.

**Mosquitoes—Rainpool**

Gibson, Ott. Dis. Mos. Cont. Comm. R.  
f. 1929, 10-12, 1929.

**Mosquitoes—Repellents**

Barber, Komp & Clark, United Fruit  
Co. Med. Dept. R. 13, 219-221, 1925.

bBunker & Hirschfelder, Amer. J. Trop.  
Med. 5; 5, 358-383, 1925.

Dunn, Can. Dept. Agr. Pam. 55, n.s.  
July 1925.

Howard & Bishopp, U. S. F. B. 1570,  
1928, 12 p.

Rudolfs, N.J.R. f. 1924, 350, 1925.

——Md. Farm. 13; 17, 10, 1929.

——Neb. Ext. Note, 16; 52, 1929.

**Mosquitoes—Resistant to eradication**

Beyer, La. St. Bd. Health Quart. B.  
16; 1, 148-157, 1925.

**Mosquitoes—Screening**

Fullerton, So. Med. J. 22, 395-398, 1929.

**Mosquitoes—Southern United States**

LePrince, N. J. Mos. Exterm. Assoc.  
Proc 13, 68-71, 1926.

**Mosquitoes—Surinam**

Howard & Dyar, Science 63, 457, 1926.

**Mosquitoes—Technique of feeding**

Hertig and Hertig, Science 65, 328-329,  
1927.

**Mosquitoes—Tennessee**

Tuggle, N. J. Mo. Exterm. Assoc. Proc.  
13, 71-74, 1926.

**Mosquitoes—Texas-Mexican border**

Tarbett, Texas State J. Med. 20, 442,  
1924-25.

**Mosquitoes—Traps**

Miller, N. J. R. 50, 127-130, 1929.

**Mosquitoes—Upland and salt marsh**

Leslie, N. J. Mos. Exterm. Assoc.  
Proc. 13, 27-33, 1926.

**Mosquitoes—U. S. and Canada**

Jackson, et al, Amer. J. Pub. Health 18,  
985-992, 1928.

——Nation's Health 7; 1, 74, 1925.

**Mosquitoes—Venezuela**

Dyar, Ins. Insc. Mens. 13, 213-216, 1925.

**Mosquitoes—W. Canada**

Hearle, Ont. Ent. Soc. R. 58, 45-50,  
1928.

**Mosquitoes—Why so few?**

iHeadlee, N. J. Mos. Exterm. Assoc.  
Proc. 12, 50-60, 1925.

**Mosquitoes—Yellowstone National Park**

Mendelssohn, U. S. Pub. H. R. 40, 1255,  
1925.

**Mosquitoes and agricultural progress**

Lipman, Proc. N. J. Mos. Exterm.  
Assoc. 12, 21-24, 1925.

**Mosquitoes and bats**

iCampbell, Bats, Mosquitoes & dollars,  
1925, 262 p.

iNelson, U.S.D.A.B. 1395, 1926, 12 p.

ibStorer, J. Mammalogy, 7, 85-90, 1926.

——Amer. Jour. Pub. Health 16, 611,  
1926.

**Mosquitoes and building designs**

LePrince, S. Med. J. 18, 465-466, 1925.

**Mosquitoes and chara**

iMatheson, N. J. Mos. Exterm. Assoc.  
Proc. 15, 77-86, 1928.

bMatheson & Hinman, Amer. J. Pub.  
Health 8, 279-292, 1928.

iMatheson & Hinman, Am. J. Trop.  
Med. 9, 249-266, 1929.

**Mosquitoes and dengue**

Chandler, Animal Parasites Ed. 3, 448,  
1925.

Davis, Cur. Hist. M. N. Y. Times 24,  
424-425, Je. 1926.

Siler, Hall & Hitchens, J. Am. Med.  
Assoc. 84, 1163-1172, 1925.

Siler, Hall & Hitchens, Dengue, 1926,  
264 pp.

**Mosquitoes and dermatobia**

Chandler, Animal Parasites ed. 3, 451,  
1925.

**Mosquitoes and disease**

Chamberlain, 25 years Amer. Med. Ac-  
tivity Panama 1904-1929, 11-32, 1929.

Strong, et al, Harvard Inst. Trop.  
Biol. and Med. Cont. 4, 165, 1926.

bFaust, Internat. Cong. Ent. 4, Tr. 2,  
259-267, 1929.

**Mosquitoes—Ditching machinery**

iBritton, Conn. B. 294, 298, 1928.

Kelley, N. J. Mos. Exterm. Assoc.  
Proc. 13, 109-111, 1926.

iReiley, N. J. Mos. Exterm. Assoc.  
Proc. 15, 24-34, 1928.



- Mosquitoes—Ditching machinery** *Cont'd*  
 Randolph, N. J. Mos. Exterm. Assoc.  
 Proc. 13, 106-108, 1926.
- Mosquitoes and drainage**  
 iChamberlain, Military Surgeon 60,  
 397-422, 1927.  
 LePrince, South Med. J. 18; 6, 452,  
 1925.  
 Viosca, La. Dept. Conserv. B. 14, 3-11,  
 1926.  
 Walden, N. J. R. f. 1924, 353, 1925.  
 —Atlantic Co. Mos. Ext. Com. R.  
 14, 17-22, 1926.
- Mosquitoes and filariasis**  
 Davis, Am. J. Hygiene 8, 457-466, 1928.
- Mosquitoes and flood problem**  
 Vermeule, N. J. Mos. Exterm. Assoc.  
 Proc. 16, 46-50, 1929.
- Mosquitoes and formaldehyde**  
 —Science Suppl. 65: 1672, x, 1927.
- Mosquitoes and fowl-pox**  
 biKligler et al, Jour. Expt. Med. 69, 649-  
 660, 1929.
- Mosquitoes and paris green**  
 LePrince & Johnson, Pub. Works, 60:  
 352-354, S. 1929.
- Mosquitoes and plasmodia of birds**  
 biHuff, Amer. J. Hyg. 7, 706-734, 1927.
- Mosquitoes and rainfall**  
 Headlee, N. J. B. 422, 1925, 14p.  
 Headlee, Proc. N. J. Mos. Exterm.  
 Assoc. 12, 52, 1925; 16, 74-80, 1929.
- Mosquitoes and temperature**  
 bRudolfs, J. N. Y. Ent. Soc. 33, 163-169,  
 1925.
- Mosquitoes and tide-carried debris**  
 Reiley, N. J. Mosquito Exterm. Assoc.  
 Proc. 13, 104-106, 1926.
- Mosquitoes and yellow fever**  
 bBauer, Amer. Jour. Trop. Med. 8, 261-  
 282, 1928.  
 Howard, N. J. Mos. Exterm. Assoc.  
 Proc. 16, 24-26, 1929.  
 Philip, Am. J. Trop. Med. 9, 267-269, '29.
- Moth-hunting molecules**  
 Slosson, Collier's 83, Apr. 13, 1929, 57.
- Moth proofing solutions**  
 Back, J. Wash. Acad. Sci. 18, 387-388,  
 1928.  
 Back & Cotton, Furniture Warehouse-  
 man 8, 10, 800, 1927.
- Back & Cotton, U. S. D. A. Y. B. 1927,  
 465-467, 1928.
- iBack & Cotton, Furniture Manufacturer  
 95:4, 35-38, 1928.
- Jackson & Wassell, Furniture Manufac-  
 turer New ser. 35; 1, 58, 83, 1928.
- Jackson & Wassell, Indust. & Engin.  
 Chem. 19, 10, 1175-1180, 1928.
- Mullin, Amer. Dyestuff R. 14, 321-323,  
 1925.
- Mullin, Textile Colorist 47, 160-163,  
 229, 231, 1925; 48, 89-91, Feb. 1926.
- Peet & Grady, Soap 4, 115-117, 1928.
- Moths**  
 iClark, Sci. Monthly 23: No. 134, 385-  
 397, 1926.  
 iCook, Can. Ent. 58, 105, 1926.  
 Johnson, Am. Dyestuff Rep. 14, 11-13,  
 1925.  
 Walter, Proc. Ent. Soc. Wash. 30, 137-  
 141, 1928.  
 iShowalter, Nat. Geo. Mag. 52: 1, 77-126,  
 1927.
- Moths in furniture**  
 iBack & Cotton, Nat. Retail Dry Goods  
 Assoc. B. 10: 2, 52-53, 57, 1928.  
 iEdwards, Pop. Mech. 48, 171-172, Jl.  
 1927.
- Mottled mosquito**, *see* *Psorophora discolor*
- \*Mottled tortoise beetle**, *see* *Chirida gut-  
 tata*
- Mottled umber moth**, *see* *Erannis de-  
 foliaria*
- Mound building ant**, *see* *Formica exsec-  
 toides*
- Mountain bumble bee**, *see* *Bremus ap-  
 positus*
- \*Mountain pine beetle**, *see* *Dendroctonus  
 monticolae*
- \*Mourning cloak butterfly**, *see* *Aglais  
 antiopa*
- Mucomya hirticauda**  
 niVan Duzee, Cal. Acad. Sci. Proc. 17; 2,  
 38, 1928.
- Mula n. gen., resonana**  
 nBall, Can. Ent. 60, 198, 1928.
- \*Mulberry whitefly**, *see* *Tetraleurodes  
 mori*
- Munodopoides, n. gen., cisthenaris**  
 Cockerell, PUSM, 68; 5, 11-12, 1925.
- Murgantia histrionica (Harlequin bug)\***  
 Compton, Ill. C. 297, 11, 1925.

- Jones & Ernst, Cal. Ext. C. 11, 34, 1927.  
 McHatton, Firor & Keener, Ga. Ext. B. 257 rev., 26-27, 1926.  
 Pepper, S. C. Clemson Col. Weekly News Notes, 14; 8, 1925; 15; 7, 1, '26.  
 iWatson, Fla. Dept. Agr. Quar. B. 39; 3, 80-81, 1929.
- Musca domestica (House fly)\***  
 Beach, & Freeborn, Cal. Ext. C. 8, 64-65, 1929.  
 iBrittain, N. S. Dept. Nat. Resource B. 12, 94-96, 1927.  
 iCarr, U. S. Naval Med. B. 25, 530-531, 1927.  
 iDavis, Ind. C. 150, 21-23, 1928.  
 iEddy, J. Ec. Ent. 20, 270-280, 1927.  
 iEddy, S. C. B. 237, 1927, 14p.  
 biEddy, S. C. B. 256, 1929, 43p.  
 ihFelt, N. Y. St. Mus. B. 274, 12-26, 1928.  
 iGibson & Twinn, Can. Dept. Agr. B. 112, 10-13, 1929.  
 Glaser, J. Ec. Ent. 20, 432-433, 1927.  
 iGuyton, Pa. Dept. Agr. Gen. B. 432, 5, 1927.  
 Howard & Bishopp, U. S. F. B. 1408, Apr. 1925, 17p.  
 iHutchinson, Country Gentl. 90, 12, May 9, 1925.  
 Leathern, South. Agr. 59, 13, 11, 1929.  
 Maheux, Quebec. Soc. Protec. Plt. R. 18, 99, 1926.  
 McDaniel, Mich. C. B. 106, 1-8, 1927.  
 Marcovitch, J. Ec. Ent. 22, 602, 1929.  
 O'Riordan, J. State Med. 36, 96-100, 1928.  
 Reppert, Texas Ext. Serv. Farm. News, 11; 16, 1, 1926.  
 iRiley, The Nation's Health 7, 222-232, 1925.  
 Spencer, Ont. Ent. Soc. R. 59, 36, 1929.  
 Spittall, Proc. Acadian Ent. Soc. 10, 67, 1925.  
 iTao, Amer. J. Hyg. 7, 747-748, 1927.  
 Twinn & Herman, Ont. Ent. Soc. R. 58, 43-44, 1928.  
 Whelan, Dak. Farm. 45, 486, 1925.
- Musca domestica—Bacteriophage**  
 Sharpe, J. Exp. Med. 45, 1037-1044, 1927.
- Musca domestica—Fowl tapeworm**  
 Freeborn, Nat. Farm. J. 53; 9, 34, 1929.  
 — J. Jam. Agr. Soc. 29, 421, 1925.
- Musca domestica—Herpetomonas**  
 biGlaser, Amer. J. Trop. Med. 6, 205-219, 1926.
- Musca domestica—Intelligence**  
 — Guide to Nature 17, 163, 1925.
- Musca domestica on sheep**  
 Bowstead & Sackville, Univ. Alberta Coll. Agr. B. 19, 79, 1928.
- Musca domestica—Size of**  
 i— Sci. Amer. 135, 97, 1926.
- Musca domestica—Tongue**  
 iAllen, Nature Mag. 9: 2, 79, 1927.
- Musca domestica—Wing used to measure heat from star**  
 — Outlook 152, 538, 1929.
- Musca domestica and diseases**  
 iGlueck, J. Amer. Vet. Med. Assoc. 71, 574-577, 1927.
- Muscina pascuorum**  
 bCurran, Can. Ent. 58, 235-236, 1926.  
 Johnson, Psyche 33; 1, 20-21, 1926.
- Muscina stabulans**  
 Breakey, Ann. Ent. Soc. Amer. 22, 461, 1929.  
 iCarr, U. S. Naval Med. B. 25, 533, 1927.  
 iFelt, N. Y. St. Mus. B. 274, 18, 1928.  
 Gibson & Twinn, Can. Dept. Agr. B. 112, 13, 1929.  
 McDaniels, Mich. C. B. 106, 1927.  
 Tao, Amer. J. Hyg. 7, 748-749, 1927.
- Muscoidea**  
 iAldrich, Ann. Ent. Soc. Amer. 18, 107-130, 456-469, 1925.  
 Aldrich, Trans. Amer. Ent. Soc. 52, 7-28, 1926.  
 Aldrich, Bklyn. Ent. Soc. B. 22, 18-25, 1927.  
 Aldrich, PUSNM 74; 19, 1929, 34p.  
 iGreen, Proc. Ent. Soc. Wash. 27, 157-162, 1925.  
 biHuff, Ent. News 36, 239-243, 1925.  
 Townsend, J. N. Y. Ent. Soc. 36, 83-93, 169-174, 1928.
- Mushroom insects**  
 Charles & Popenoe, USDA C. 27, 6-9, '27.  
 Marlatt, U. S. D. A. Ent. R. f. 1929, 21-22.  
 iPopenoe, U. S. F. B. 789 rev. J1. 1925, 6p.  
 Thomas, Pa. St. Col. B. 204, 37, 1926.  
 Thomas, Pa. St. Col. B. 230, 41-42, 1928.  
 Thomas, Ent. News 40, 222-225, 1929.  
 Thomas, Pa. St. Col. B. 243, 30, 1929.

**Muskmelon insects**

Adams, Market Grow. J. 36, 204, 1925.

**Mutillidae**

McColloch, Kans. Ent. Soc. J. 1, 93-99, 1928.

bMickel, Psyche 35, 16-28, 1928.

ibMickel, U. S. N. M. B. 143, 1928, 351p.

**Mycetophila alberta**

nCurran, Can. Ent. 59, 80, 1927.

**Mycetophila bispina, clavata**

inVan Duzee, Cal. Acad. Sci. Proc. 17; 2, 58-59, 1928.

**Mycetophila dominica**

inCurran, Amer. Mus. Nov. 275, 1, 1927.

**Mycetophila fusca 60-61, ovata 59-60,**

parvimaculata 59, pectoralis 62, singularis 62-63, spiniger 61; niVan Duzee, Cal. Acad. Sci. Proc. 17; 2, '28.

**Mycetophilidae**

iIllingworth Hawaii Pine Canners Assoc.

Pine Apple News 1, 56-59, 1927.

Johannsen, Can. Ent. 58, 51-52, 1926.

nVan Duzee, Cal. Acad. Sci. ser. 4, Proc.

17; 2, 31-65, 1928.

**Mycomya abbreviata 42, californica 40,**

fuscipalpis 40-41, longispina 41-42.,

nigrihirta 39-40; niVan Duzee, Cal. Acad. Sci. Proc. 17; 2, 1928.

**Mydidae**

Johnson, Bost. Soc. Nat. Hist. Proc. 38,

131-145, 1926.

**Mydas brunneus, pertenuis**

nJohnson, Bost. Soc. Nat. Hist. Proc. 38,

136, 137, 1926.

**Myeloborus—n. gen. 16-17, amplus 18-19,**

boycei 26-27, catulus 21-22, fivazi 23-

26, iniquus 27-28, keeni 19-20, pin-

quis 20-21, ramiperda 22-23.

niBlackman, N. Y. St. Coll. For. B. 1; 3-b,

1928.

**Myelois ceratoniae**

Sheppard, Ont. Ent. Soc. R. 56, 51, 1926.

**Myelois expunctrix**

niDyar & Heinrich, Proc. Ent. Soc. Wash.

31, 116-118, 1929.

**Myelois piazzella**

nDyar, Ins. Insc. Mens. 13, 11, 1925.

**Myelois venipars (Navel Orange worm)\***

Essig, Insects of Western No. Amer.

1926, 708.

Glick, J. N. Y. Ent. Soc. 33, 116, 1925.

**Myersia harringtoni, nigra**

nViereck, Can. Ent. 57, 73, 1925.

**Myialges 137-140, anchora 138-139, caulo-**

toon 139; Ferris, Ent. News 39, 1928.

**Myiasis**

Chandler, Animal Parasites ed. 3, 509-528, 1925.

Comer, Southwestern Med. 11, 308, 1927.

iCorrigan & Corrigan, Canad. Med. J.

15, 403-405, 1925.

Detwiler, Ont. Ent. Soc. R. 59, 57-59, 1929.

Felt, N. Y. St. Mus. B. 274, 22-25, 1928.

Frison, J. Ec. Ent. 18, 334-336, 1925.

Gibson & Twinn, Can. Dept. Agr. B.

112, 17, 1929.

Hermes, J. Parasitol. 11, 149-150, 1925.

iHermes, J. Parasitol. 12, 54-56, 1925.

Lanford & Warren, N. Orleans Med. & Surg. J. 77, 473-475, 1925.

Stroud, Southwestern Med. 11, 313-317,

July 1927.

Sweitzer & Wangelin, Minn. Med. 9, 97,

1926.

**Myiocera amicabile, compacta**

nWest, J. N. Y. Ent. Soc. 33, 130, 1925.

**Myiocnema comperei**

iSmith & Compere, Cal. Univ. Pubs. in

Ent. 4, 301-306, 1928.

**Myioleptini gen—Key**

Shannon, Proc. Ent. Soc. Wash. 27, 108,

1925.

**Myiology—North American**

Townsend, J. N. Y. Ent. Soc. 33, 1-10,

1925.

**Myiomima trivittata**

nCurran, Amer. Mus. Novit. 176, 7, 1925.

**Mylabridae**

biBoving, Proc. Ent. Soc. Wash. 29, 133-

143, 1927.

**Mylabris, see also Acanthoscelides and**

Bruchus

**Mylabris discoideres**

Fletcher, Can. Ent. 61, 259, 1929.

**Mylabris obtectus**

IEssig, Insects of Western No. Amer.

1926, 483-484.

**Mylabris—Species, key**

Boving, Proc. Ent. Soc. Wash. 29, 141,

1927.

- Myndus crudus**  
Myers, Harvard Inst. Trop. Biol. & Med.  
Cont. 3, 86-87, 1926.
- Myocalandra elongata**  
iCotton, Proc. Ent. Soc. Wash. 29, 93-94,  
1927.
- Myopsocus novae**  
ibCampbell, Bklyn. Ent. Soc. B. 23, 124-  
128, 1928.
- Myrmapatetes**—n. gen., *flicornis*  
nWheeler, Amer. Mus. Nov. 349, 6-8, 1929.
- Myrmecocystus melliger**  
Parks, Bklyn. Ent. Soc. B. 24, 32-34,  
1929.
- Myrmecophila oregonensis** (Ant Cricket)  
Beall, B. C. Ent. Soc. Proc. 26, 44-46,  
1929.
- Myrmecophilous insects**  
Mann, J. Wash. Acad. Sci. 16, 448-455,  
1926.
- Myrmecotypus cinctus, similis**  
niBanks, B. Harvard Mus. Comp. Zool.  
69, 60-61, 1929.
- Myrmeleon immaculatus**  
Rau, St. Louis Acad. Sci. Tr. 25, 192-  
194, 1927.
- Myrmeleonidae**  
iBanks, Harvard Mus. Comp. Zool. B. 68;  
1, 1927, 84p.  
iLutz, Nat. Hist. 28, 188-190, 1928.
- Myrmica brevinodis**  
Cooley, Mont. B. 170, 30, 1925.
- Myrmica rubra**  
—Amer. Med. Assoc. J. 86, 1467, 1926.
- Myrmica scabrinodis**  
iCreighton, Psyche 35, 52, 1928.
- Myrmicinae**—So. Cal.  
Pijoan, J. Ent. and Zool. 20, 37-39, 1928.
- Myrmosa bradleyi**  
nRoberts, Psyche, 36, 362-363, 1929.
- Myrsidea bonariensis**  
niMalcolmson, Ann. Ent. Soc. Amer. 22,  
728-729, 1929.
- Myrtopsen mimosae**  
nWeld, PUSNM 68; 10, 116-117, 1926.
- Myrscelus epigona**  
bBell, J. N. Y. Ent. Soc. 33, 227-232, 1925.
- Mysidia rubidella**  
nBall, Can. Ent. 60, 199, 1928.
- Mystacides canadensis**  
Dodds & Hisaw, Ecology, 6, 125, 1925.
- Myxosargus knowltoni, panamensis**  
nCurran, Amer. Mus. Novit. 378, 2-3, '29.
- Myzocallis sp.**  
Glendenning, Proc. Ent. Soc. B. C. 25,  
18-20, 1928.
- Myzocallis alni**  
Glendenning, Proc. Ent. Soc. B. C. 25,  
19, 1928.  
niSaunders, Ann. Ent. Soc. Amer. 21, 549-  
552, 1928.
- Myzocallis alnifoliae**  
iSaunders, Ann. Ent. Soc. Amer. 21, 552-  
555, 1928.  
Spencer, Ont. Ent. Soc. R. 59, 37, 1929.
- Myzocallis arundicolens** (Bamboo aphid)  
Galloway, U. S. D. A. B. 1329, 42, 1925.
- Myzocallis discolor**  
Knowlton, Pan.-Pac. Ent. 6, 39, 1929.
- Myzocallis fumipenellus** (Black pecan  
aphid)  
Leiby, N. C. Dept. Agr. B. Feb. 1925, 37.
- Myzocallis kahawaluokalani** (Crepe myr-  
tle plant louse)  
Dozier, J. Ec. Ent. 19, 800, 1926.
- Myzocallis pseudoalni**  
iSaunders, Ann. Ent. Soc. Amer. 21, 559-  
563, 1928.
- Myzocallis pulchellus**  
niGlendenning, Can. Ent. 61, 237-238, '29.
- Myzocallis rhombifoliae**  
niSaunders, Ann. Ent. Soc. Amer. 21, 555-  
558, 1928.
- Myzocallis spp.**—Review  
niGranovsky, Ann. Ent. Soc. Amer. 21,  
546-565, 1928.  
iTakahashi, Proc. Ent. Soc. Wash. 28,  
159-162, 1926.
- Myzocallis taiwanus**  
niTakahashi, Proc. Ent. Soc. Wash. 28,  
160-162, 1926.
- Myzomyia ludlowii**  
Parsons, Military Surg. 63, 816-829,  
1928.  
Walch, So. Med. J. 18; 6, 435-438, 1925.
- Myzomyia lutzi**, see *Anopheles cruzi*
- Myzomyia sinensis**  
Walch, So. Med. J. 18; 6, 435-438, 1925.
- Myzosargus texensis**  
nCurran, Amer. Mus. Novit. 378, 4, 1929.
- Myzus alpinus**  
inGillette & Parker, Ann. Ent. Soc. Amer.  
22, 18, 1928.

**Myzus cerasi** (Black cherry aphid)\*

iBrittain, N. S. Dept. Nat. Resource B. 12, 58, 1927.

Britton & Zappe, Conn. B. 292, 136, 1927.

iClark, Wis. B. 396, 96-97, 1927.

Crosby, et al, N.Y.C.B. 498, 57-58, '29.

iCutright, Ohio Bi-Mo. B. 13; 2, 44-48, 1928.

Gentner, Ann. R. Mich. St. Hort. Soc. 55, 72-75, 1925.

iGranovsky, Wis. Hort. 18, 227, 1928.

iQuaintance & Baker, U. S. F. B. 1128; rev. Apr. 1926, 16-17.

Ross, Ont. Fruit Gr. Assoc. R., 56, 61, 1925.

Russell, Morrison & Ebling. Wis. B. 388, 62-64, 1926.

Webster, Wash. Farm. 54, 137, 1928.

— Wis. B. 405, 119, 1929.

**Myzus circumflexus** (Lily aphid)

Severin, So. Dak. Ent. R. 15, 14, 1924.

**Myzus cynosbati**

Quaintance & Baker, U. S. F. B. 1128, rev. Apr. 1926, 25-26.

**Myzus dispar**

Quaintance & Baker, U. S. F. B. 1128, rev. Apr. 1926, 24.

**Myzus fragaefolii** (Strawberry aphid)

Plakidas, J. Agr. Res. 35, 1068-1076, 1927.

**Myzus gossypii**

iSeverin, So. Dak. Ent. R. 15, 14, 1924.

**Myzus heucherae**

iSoliman, Cal. Univ. Pub. Ent. 4; 6, 135, 1927.

**Myzus houghtonensis** (Gooseberry Witch-broom aphid)\*

Curtiss, Iowa R. f. 1926, 41.

iDeLong & Jones, J. Ec. Ent. 19, 40-43, 1926.

iDeLong & Mathewson, J. Ec. Ent. 18, 172, 1925.

iQuaintance & Baker, U. S. F. B. 1128, rev. Apr. 1926, 24-25.

**Myzus lactucae**

Soliman, Cal. Univ. Pub. Ent. 4; 6, 136, 1927.

**Myzus leucoorini**

niGillette & Palmer, Ann. Ent. Soc. Amer. 22, 470-471, 1929.

**Myzus persicae** (Green peach aphid)\*

iCaesar, Ont. Dept. Agr. B. 325, 58-59, 1927.

Cory & Eaton, Md. B. 308, 421-422, 1929.

iHeadlee, N. J. C. 178, 5-6, 1925.

Headlee, N. J. R. 46, 371, 1925.

Headlee, N. J. R. 46, 409-411, 1929.

ibHoggan, Phytopath. 19, 109-123, 1929.

Huckett, J. Ec. Ent. 18, 128-132, 1925.

Nolla, Phytopathology 19, 102, 1929.

ibPatch, Maine B. 323, 17-18, 1925.

iQuaintance & Baker, U. S. F. B. 1128, rev. Apr. 1926, 18-20.

Severin, So. Dak. Ent. R. 15, 14, 1924.

Symons, Md. Ext. R. 10, 123, 1925.

Watson, Fla. Dept. Agr. Quar. B. 39; 3, 75, 1929.

Watson, Fla. Dept. Agr. Quar. B. 39; 3, 106-107, 1929.

iWeed, J. Ec. Ent. 20, 150-157, 1927.

**Myzus persicae** and plant diseases

Davis, Ind. R. f. 1926, 28, 1927.

Gilbert, Science 67, 464, 1928.

**Myzus polemonii**

niGillette & Palmer, Ann. Ent. Soc. Amer. 22, 471-472, 1929.

**Myzus pseudosolani** (Foxglove aphid)

iPatch, Me. B. 346, 49-60, 1928.

**Myzus ribifolii** (Western currant aphid)

Quaintance & Baker, U. S. F. B. 1128, rev. Apr. 1926, 25.

**Myzus ribis** (Currant aphid)\*

Britton & Zappe, Conn. B. 292, 136, 1927.

iBrittain, N. S. Dept. Nat. Resource B. 12, 61, 1927.

iCaesar, Ont. Dept. Agr. B. 318, 22, 1926.

Cooley, Mont. B. 170, 24, 1925.

Darrow, U. S. F. B. 1398, rev. Sept. 1929, 15-16.

Parrott & Harman, Penn. Crop. Protec. Inst. C. 4; 3, 3, 1925.

Quaintance & Baker, U. S. F. B. 1128, rev. Apr. 1926, 33.

iSears, Productive Small Fruit Cult. ed. 2, 259-260, 1925.

**Myzus varians**

Quaintance & Baker, U. S. F. B. 1128, rev. Apr. 1926, 21.

**Nab'dae—North America**

Ent. News 37, 287, 1926.

ibHarris, Ent. Amer. 9, 1-90, 1928.

Nabis alternatus 67, deceptivus 45-46, dentipes 43-44.

Harris, Ent. Amer. 9, 1928.

- Nabis edax**  
nBlatchley, Ent. News 40, 75-76, 1929.
- Nabis ferus**  
nHarris, Ent. Amer. 9, 69, 1928.
- Nabis gerhardi**  
nHarris, Bklyn. Ent. Soc. B. 23, 146, 1928.
- Nabis lovetti**  
nHarris, Ent. News 36, 205-206, 1925.
- Nabis punctipennis**  
Barber, Zoologica, N. Y. 5, 251, 1925.
- Nabis rosipennis**  
Ewing, Am. J. Pharm. 100, 540, 1928.  
Ewing, Amer. J. Trop. Med. 8, 59-60, 1928.  
Ewing, U. S. Naval Med. B. 26, 701, 1928.  
Harris, Ent. News 37, 287, 1926.
- Nacopa melanderi**  
nBarnes & Benjamin, Pan-Pac. Ent. 4, 5, 1927.
- Nail-head scale, Florida red scale,\* see**  
*Chrysomphalus ficus*
- Nannocoris cavifrons** 28-29, *flavomarginata* 29, *nasua* 29, *schwarzi* 29. spp. Key 28; McAtee & Malloch, PUSNM 67, 13, 1926.
- Nantucket pine moth, see** *Rhyacionia frustrana*
- \*Narcissus bulb fly, see** *Merodon equestris*
- Narcissus bulb—Quarantine**  
Leiby, N. C. Dept. Agr. Bien. R. 1926-28, 40-41, 1929.  
Marlatt, USDA FHB SRA, 90, 48, 1927.  
Smith & Gammon, Cal. Agr. Mo. B. 16, 493-497, 1927.  
— Amer. Florist 67, 1989, 11, 1926.
- Narcissus insects**  
ilWilcox, Oreg. St. Hort. Soc. Bien. R. 19, 150-158, 1927.
- Narquena n. gen., resalaria**  
niSchaus, Wash. Ent. Soc. Proc. 31, 53-54, 1929.
- Narrow-winged tree cricket, see** *Oecanthus angustipennis*
- Nasutitermes gen. 25-26, aduncus** 26-27, *angusticens* 33  
nSnyder, P. U. S. N. M. 68, Art. 14, 1926.
- Nasutitermes benjamini**  
Snyder, Proc. Biol. Soc. Wash. 39, 142, 1926.
- Nasutitermes bettonianus—n. subsp.**  
niEmerson, Am. Mus. Nat. Hist. B. 57, 493, 1928.
- Nasutitermes brooksi**  
niSnyder, Proc. Ent. Soc. Wash. 27, 106, 1925.
- Nasutitermes cavifrons**  
biEmerson, Zoologica, N. Y. 7, 69-100, 1926.
- Nasutitermes chapini**  
niEmerson, Am. Mus. Nat. Hist. B. 57, 480-481, 1928.
- Nasutitermes crassus**  
nSnyder, PUSNM 68; 14, 28-29, 1926.
- Nasutitermes ephratae**  
Snyder, Proc. Ent. Soc. Wash. 29, 97, 1927.
- Nasutitermes fulleri**  
niEmerson, Am. Mus. Nat. Hist. B. 57, 483, 1928.
- Nasutitermes glaber**  
nSnyder, PUSNM 68; 14, 42-43, 1926.
- Nasutitermes kohli**  
niEmerson, Am. Mus. Nat. Hist. B. 57, 484, 1928.
- Nasutitermes laticephalus**  
niSnyder, PUSNM 68; 14, 43-44, 1926.
- Nasutitermes lutzi**  
niEmerson, Am. Mus. Nat. Hist. B. 57, 494-495, 1928.
- Nasutitermes melanocephalus**  
nSnyder, PUSNM 68; 14, 35-38, 1926.
- Nasutitermes morio**  
Salt, Harvard Inst. Trop. Biol. & Med. Cont. 3, 48, 1926.
- Nasutitermes oceanicum, orientis**  
nSnyder, J. Wash. Acad. Sci. 15, 349-441, 1925.
- Nasutitermes pallidiceps**  
Wolcott, J. Ec. Ent. 18, 422, 1925.
- Nasutitermes pallidus, pilosus**  
nSnyder, P. U. S. N. M. 68, Art. 14, 30-31, 34-35, 1926.
- Nasutitermes sanctae-crucis**  
nSnyder, J. Wash. Acad. Sci. 15, 442-443, 1925.
- Nasutitermes santschii, suffuscus**  
niEmerson, Am. Mus. Nat. Hist. B. 57, 484-487, 496-497, 1928.
- Nasutitermes uniformis**  
niSnyder, PUSNM 68, 14, 39-41, 1926.

**Nathalis iole**

Coolidge, Ent. News 36, 86, 1925.

**Nature faking**

iAaron, Sci. Amer. 134, 322, 1926.

**Nautes viridimicans**

Blatchley, Can. Ent. 57, 166, 1925.

**\*Navel orange worm, see Myelois venipars****Neanura setosa**

niCanby, J. Ent. &amp; Zool. 18; 2, 41-42, 1926.

**Nearretocera longipedicel**

nGirault, Ins. Insc. Mens. 14, 127, 1926.

**Neatus spp.—Taxonomic studies**

biSt. George Proc. Ent. Soc. Wash. 28, 102-111, 1926.

**Neborella—n. gen.**

Knight, Bklyn. Ent. Soc. B. 20, 48, 1925

**Nebria crassicornis 121, lyelli 120, meanyi**

118, piperi 117, riversi 115, schwarzi 116, spatulata 119

nVan Dyke, Pan-Pac. Ent. 1, 1925.

**Necator americanus**

bSvensson, Parasitology 13, 103-105, 1927.

**Necrobia rufipes (Red-legged ham beetle)\***

biSimmons &amp; Ellington, J. Agr. Res. 30, 845-863, 1925.

**Necrodes**

Hatch, J. N. Y. Ent. Soc. 35, 342-345, '27.

**Necrophilus—Spp., key**

Hatch, J. N. Y. Ent. Soc. 35, 339-340, 1927.

**Necrophori—Olfactory sense**

bAbbott, Ann. Ent. Soc. Amer. 20, 207-216, 550-553, 1927.

**Necrophorus americanus—In meat traps**

Fletcher, Can. Ent. 61, 258, 1929.

**Necrophorus hybridus**

nHatch, J. N. Y. Ent. Soc. 33, 216, 1925.

**Necrophorus orbicollis**

Steele, J. N. Y. Ent. Soc. 35, 77, 1927.

**Necrophorus sp.—Ont.**

Milne, Canadian Field-Nat. 42, 43, 1928.

**Necrophorus tomentosus—Feeding habits**

Steele, J. N. Y. Ent. Soc. 35, 77, 1927.

**Necrophylus arenarius**

ibWheeler, Psyche, 36, 313-319, 1929.

**Nectarina lecheguana**

iSchwarz, Nat. Hist. 29, 421-426, 1929.

**Nectocader—n. gen.**

nDrake, Iowa St. Col. J. Sci. 3, 41, 1928.

**Necydalis laevicollis**

Hardy &amp; Preece, Pan.-Pac. Ent. 3; 1, 37, 1926.

**Neduba carinata**

ilFulton, Pan.-Pac. Ent. 5, 175-180, 1929.

**\*Negrobug, see Thyreocoris pulicarius****Neidalia dulcicula**

niSchaus, Proc. Ent. Soc. Wash. 31, 46-47, 1929.

**Neisseria lucilliarum in Lucilia sericata**

nBrown, Amer. Mus. Nov. 251, 3-4, 1927.

**Nelumbo-borer, see Pyrausta penitalis****Nematodes**

Brown, Ind. Hort. Soc. Tr. 64, 121-124, 1925.

Cassidy &amp; Van Zwaluwenburg, Assoc. Hawaiian Sugar Tech. R. 6, 10-15, 1927.

Cobb, J. Parasitol 14, 68, 1927.

iCobb, U.S.D.A. YB 1927, 479-480, 1928.

iCobb, J. Wash. Acad. Sci. 19, 199-200, 1929.

G. H. G., Pineapple News 1, 3-7, 23-27, 49-53, 91-92, 110, 116-120, 138-139, '27; 2, 42, 55-60, '28; 3, 83, 91-97, '29.

Gardner, J. Ent. &amp; Zool. 18, 43, 1926.

Matz, Facts about sugar 20, 1193-1194, 1925.

Merrill, Cal. R. f. 1924-25, 44, 1926.

Muir, Assoc. Hawaiian Sugar Tech. R. 5, 14-18, 1926.

Robb, Ont. Fr. Grow. Assoc. R. 21, 41-44, 1925.

Russell, Sci. Agr. 7, 385, 1927.

bSteiner, Phytopath. 15, 499-534, 1925.

Stewart, Assoc. Hawaiian Sugar Tech. R. 5, 10, 1926; R. 6, 16-21, 1927.

Stewart &amp; Bateman, Utah B. 195, 1926, 31p.

bThorne, Amer. Micro. Soc. Tr. 48, 181-195, 1929.

Watson, Fla. R. f. 1926, 44R, 1926.

**Nematoproctus jucundus, spp.**

nVan Duzee, Ent. News 38, 53-54, 1927.

**Nematus erichsoni (Larch sawfly)\***

Britton, Conn. B. 305, 762, 1929.

iBritton &amp; Zappe, Conn. B. 292, 146-147, 1928.

bCriddle, Can. Ent. 60, 51-53, 1928.

Gorham, et al, Ont. Ent. Soc. R. 59, 16, 1929.

Graham, J. Ec. Ent. 21, 301-310, 1928.

Graham, J. Mammalogy, 10, 3, 189-196, 1929.

- ide Gryse, Can. Dept. Agr. Ent. Br. Pam. 47 n.s. rev. ed. 25, 1925.
- iPerison, Me. For. Serv. B. 5, 74-76, 1927.
- Snyder, Nature Mag. 5, 313, 1925.
- Spittall, Proc. Acad. Ent. Soc. 10, 75, 1925.
- Swaine, Can. Dept. Agr. Pam. 97, 13, 1928.
- iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 26, 1926.
- Nemeritis canescens**  
Motherwell, Can. Min. Agr. R. f. 1929, 129, 1929.  
Paddock, Am. Bee. J. 66, 555, 1926.  
Richmond, Colo. Ent. C. 47, 74, 1925.  
Richmond, J. Ec. Ent. 18, 425, 1925.  
Whiting, Psyche 35, 125-126, 1928.
- Nemeritis spp.—Key**  
Viereck, Can. Ent. 57, 178-179, 1925.
- Nemognatha insularis**  
nBlaisdell, Proc. Cal. Acad. Sci. ser. 4, 14; 325, 1925.
- Nemoria albilineata** 69-70, *olivearia* 68-69, *oregonensis* 67-68  
nCassino, Lepidopterist 4, 1927.
- Nemorilla floralis**  
Balduf, Ohio J. Sci. 29, 239, 1929.
- Nemorilla oceanica**  
nCurran, Amer. Mus. Nov. 375, 14, 1929.
- Nemosturmia**, n. gen., *pilosa*  
Townsend, Ins. Insc. Mens. 14, 34-35, 1926.
- Nemoura spp.**  
biWu, Bul. Lloyd Lib. Ent. Ser. 3, 1923, 81p.
- Neoscias albipes** 62, *conica* 56, *distincta* 54, *globosa* 61, *macrofemoralis* 58, *metallica* 59, *minuta* 53, spp.—revision 51-62, *spaerophoria* 57, *subchalybea* 53, *unifasciata* 55  
nCurran, Proc. Ent. Soc. Wash. 27, 1925.
- Neobaphion** n. gen.  
Blaisdell, Proc. Cal. Acad. Sci. ser. 4, 14, 390, 1925.
- Neoborella tumida**  
nKnight, Bklyn. Ent. Soc. B. 20, 48, 1925.
- Neoborus adeliae** 2, *adustus* 3, *amoenus* 9, *atratus* 2, *fasciolus* 8, *flaviceps* 9, *populi* 4, *rufivenosus* 7, *vittifrons* 5, *wileyae* 1  
nKnight, Bklyn. Ent. Soc. B. 24, 1929.
- Neocapsus cuneatus**  
Knight, Ent. News 36, 78, 1925.
- Neocatocha cranbrookii**  
nFelt, Can. Ent. 58, 266, 1926.
- Neocatocha nylanderii**  
nFelt, Boston, Soc. Nat. Hist. Occ. Papers, 5, 207, 1926.
- Neoclytus acuminatus**  
Zappe, Conn. B. 275, 321, 1926.
- Neoclytus angelicus**  
nVan Dyke, Pan-Pac. Ent. 3, 107, 1927.
- Neoclytus basalis**, see **Neoclytus basillaris**
- Neoclytus basillaris**  
nVan Dyke, Pan-Pac. Ent. 3, 106-107, 1927; 5, 136, 1929.
- Neoclytus capraea** (Banded ash borer)  
Peirson, Me. For. Serv. B. 5, 30, 1927.
- Neoclytus carus**  
Davis, Pan-Pac. Ent. 1, 169, 1925.
- Neoclytus conjunctus**, Gray ash borer  
Hardy & Preece, Pan-Pac. Ent. 3; 39, 192, 1926, 1927.
- Neoclytus cordifer**  
Blatchley, Can. Ent. 57, 166-167, 1925.
- Neoclytus erythrocephalus** (Red-headed ash borer)  
Peirson, Me. For. Serv. B. 5, 51, 1927.
- Neoclytus modestus**  
Davis, Pan-Pac. Ent. 1, 169, 1925.  
nVan Dyke, Pan-Pac. Ent. 3, 108-109, 1927.
- Neoclytus vanduzeei**  
nVan Dyke, Pan. Pac. Ent. 3, 107-108, 1927.
- Neococcidencyrus**—n. gen., *alula*  
inCompere, Cal. Univ. Pub. Ent. 4; 8, 209-212, 213-214, 1928.
- Neoconocephalus exiliscanorus**—Song  
Allard, Smithson. R. f. 1928, 583, 1929.
- Neoconocephalus robustus**—Song  
Allard, Smithson. R. f. 1928, 576-588, 1929.
- Neoconocephalus triops**  
Hebard, Trans. Amer. Ent. Soc. 51, 301-302, 1925.  
Morse, Psyche, 33, 53, 1926.
- Neocorixa**—n. gen., *snowi*  
Hungerford, Bklyn. Ent. Soc. B. 20, 19-20, 1925.
- Neoculex**  
Freeborn, Cal. Univ. Pub. Ent. B. 3, 425, 1926.



**Nathalis iole**

Coolidge, Ent. News 36, 86, 1925.

**Nature faking**

iAaron, Sci. Amer. 134, 322, 1926.

**Nautes viridimicans**

Blatchley, Can. Ent. 57, 166, 1925.

**\*Navel orange worm, see Myelois venipars****Neanura setosa**

niCanby, J. Ent. &amp; Zool. 18; 2, 41-42, 1926.

**Nearretocera longipedicel**

nGirault, Ins. Insc. Mens. 14, 127, 1926.

**Neatus spp.—Taxonomic studies**

biSt. George Proc. Ent. Soc. Wash. 28, 102-111, 1926.

**Neborella—n. gen.**

Knight, Bklyn. Ent. Soc. B. 20, 48, 1925

**Nebria crassicornis 121, lyelli 120, meanyi**

118, piperi 117, riversi 115, schwarzi

116, spatulata 119

nVan Dyke, Pan-Pac. Ent. 1, 1925.

**Necator americanus**

bSvensson, Parasitology 13, 103-105, 1927.

**Necrobia rufipes (Red-legged ham beetle)\***

biSimmons &amp; Ellington, J. Agr. Res. 30, 845-863, 1925.

**Necrodes**

Hatch, J. N. Y. Ent. Soc. 35, 342-345, '27.

**Necrophilus—Spp., key**

Hatch, J. N. Y. Ent. Soc. 35, 339-340, 1927.

**Necrophori—Olfactory sense**

bAbbott, Ann. Ent. Soc. Amer. 20, 207-216, 550-553, 1927.

**Necrophorus americanus—In meat traps**

Fletcher, Can. Ent. 61, 258, 1929.

**Necrophorus hybridus**

nHatch, J. N. Y. Ent. Soc. 33, 216, 1925.

**Necrophorus orbicollis**

Steele, J. N. Y. Ent. Soc. 35, 77, 1927.

**Necrophorus sp.—Ont.**

Milne, Canadian Field-Nat. 42, 43, 1928.

**Necrophorus tomentosus—Feeding habits**

Steele, J. N. Y. Ent. Soc. 35, 77, 1927.

**Necrophylus arenarius**

ibWheeler, Psyche, 36, 313-319, 1929.

**Nectarina lecheguana**

iSchwarz, Nat. Hist. 29, 421-426, 1929.

**Nectocader—n. gen.**

nDrake, Iowa St. Col. J. Sci. 3, 41, 1928.

**Necydalis laevicollis**

Hardy &amp; Preece, Pan.-Pac. Ent. 3; 1, 37, 1926.

**Neduba carinata**

iFulton, Pan.-Pac. Ent. 5, 175-180, 1929.

**\*Negrobug, see Thyreocoris pulicarius****Neidalia dulcicula**

niSchaus, Proc. Ent. Soc. Wash. 31, 46-47, 1929.

**Neisseria lucilliarum in Lucilia sericata**

nBrown, Amer. Mus. Nov. 251, 3-4, 1927.

**Nelumbo-borer, see Pyrausta penitalis****Nematodes**

Brown, Ind. Hort. Soc. Tr. 64, 121-124, 1925.

Cassidy &amp; Van Zwaluwenburg, Assoc. Hawaiian Sugar Tech. R. 6, 10-15, 1927.

Cobb, J. Parasitol 14, 68, 1927.

iCobb, U.S.D.A. YB 1927, 479-480, 1928.

iCobb, J. Wash. Acad. Sci. 19, 199-200, 1929.

G. H. G., Pineapple News 1, 3-7, 23-27, 49-53, 91-92, 110, 116-120, 138-139, '27; 2, 42, 55-60, '28; 3, 83, 91-97, '29.

Gardner, J. Ent. &amp; Zool. 18, 43, 1926.

Matz, Facts about sugar 20, 1193-1194, 1925.

Merrill, Cal. R. f. 1924-25, 44, 1926.

Muir, Assoc. Hawaiian Sugar Tech. R. 5, 14-18, 1926.

Robb, Ont. Fr. Grow. Assoc. R. 21, 41-44, 1925.

Russell, Sci. Agr. 7, 385, 1927.

bSteiner, Phytopath. 15, 499-534, 1925.

Stewart, Assoc. Hawaiian Sugar Tech. R. 5, 10, 1926; R. 6, 16-21, 1927.

Stewart &amp; Bateman, Utah B. 195, 1926, 31p.

bThorne, Amer. Micro. Soc. Tr. 48, 181-195, 1929.

Watson, Fla. R. f. 1926, 44R, 1926.

**Nematoproctus jucundus, spp.**

nVan Duzee, Ent. News 38, 53-54, 1927.

**Nematus erichsoni (Larch sawfly)\***

Britton, Conn. B. 305, 762, 1929.

iBritton &amp; Zappe, Conn. B. 292, 146-147, 1928.

bCriddle, Can. Ent. 60, 51-53, 1928.

Gorham, et al, Ont. Ent. Soc. R. 59, 16, 1929.

Graham, J. Ec. Ent. 21, 301-310, 1928.

Graham, J. Mammalogy, 10, 3, 189-196, 1929.

- ide Gryse, Can. Dept. Agr. Ent. Br. Pam. 47 n.s. rev. ed. 25, 1925.
- iPerison, Me. For. Serv. B. 5, 74-76, 1927.
- Snyder, Nature Mag. 5, 313, 1925.
- Spittall, Proc. Acad. Ent. Soc. 10, 75, 1925.
- Swaine, Can. Dept. Agr. Pam. 97, 13, 1928.
- iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 26, 1926.
- Nemeritis canescens**  
Motherwell, Can. Min. Agr. R. f. 1929, 129, 1929.  
Paddock, Am. Bee. J. 66, 555, 1926.  
Richmond, Colo. Ent. C. 47, 74, 1925.  
Richmond, J. Ec. Ent. 18, 425, 1925.  
Whiting, Psyche 35, 125-126, 1928.
- Nemeritis spp.—Key**  
Viereck, Can. Ent. 57, 178-179, 1925.
- Nemognatha insularis**  
nBlaisdell, Proc. Cal. Acad. Sci. ser. 4, 14; 325, 1925.
- Nemoria albillineata** 69-70, *olivearia* 68-69, *oregonensis* 67-68  
nCassino, Lepidopterist 4, 1927.
- Nemorilla floralis**  
Baldus, Ohio J. Sci. 29, 239, 1929.
- Nemorilla oceanica**  
nCurran, Amer. Mus. Nov. 375, 14, 1929.
- Nemosturmia, n. gen., pilosa**  
Townsend, Ins. Insc. Mens. 14, 34-35, 1926.
- Nemoura spp.**  
biWu, Bul. Lloyd Lib. Ent. Ser. 3, 1923, 81p.
- Neosascia albipes** 62, *conica* 56, *distincta* 54, *globosa* 61, *macrofemoralis* 58, *metallica* 59, *minuta* 53, spp.—revision 51-62, *spaerophoria* 57, *subchalybea* 53, *unifasciata* 55  
nCurran, Proc. Ent. Soc. Wash. 27, 1925.
- Neobaphion n. gen.**  
Blaisdell, Proc. Cal. Acad. Sci. ser. 4, 14, 390, 1925.
- Neoborella tumida**  
nKnight, Bklyn. Ent. Soc. B. 20, 48, 1925.
- Neoborus adeliae** 2, *adustus* 3, *amoenus* 9, *atratus* 2, *fasciolus* 8, *flaviceps* 9, *populi* 4, *rufivenosus* 7, *vittifrons* 5, *wileyae* 1  
nKnight, Bklyn. Ent. Soc. B. 24, 1929.
- Neocapsus cuneatus**  
Knight, Ent. News 36, 78, 1925.
- Neocatocha cranbrookii**  
nFelt, Can. Ent. 58, 266, 1926.
- Neocatocha nylanderii**  
nFelt, Boston, Soc. Nat. Hist. Occ. Papers, 5, 207, 1926.
- Neoclytus acuminatus**  
Zappe, Conn. B. 275, 321, 1926.
- Neoclytus angelicus**  
nVan Dyke, Pan-Pac. Ent. 3, 107, 1927.
- Neoclytus basalis, see Neoclytus basillaris**
- Neoclytus basillaris**  
nVan Dyke, Pan-Pac. Ent. 3, 106-107, 1927; 5, 136, 1929.
- Neoclytus capraea** (Banded ash borer)  
Peirson, Me. For. Serv. B. 5, 30, 1927.
- Neoclytus carus**  
Davis, Pan-Pac. Ent. 1, 169, 1925.
- Neoclytus conjunctus**, Gray ash borer  
Hardy & Preece, Pan-Pac. Ent. 3; 39, 192, 1926, 1927.
- Neoclytus cordifer**  
Blatchley, Can. Ent. 57, 166-167, 1925.
- Neoclytus erythrocephalus** (Red-headed ash borer)  
Peirson, Me. For. Serv. B. 5, 51, 1927.
- Neoclytus modestus**  
Davis, Pan-Pac. Ent. 1, 169, 1925.  
nVan Dyke, Pan-Pac. Ent. 3, 108-109, 1927.
- Neoclytus vanduzeei**  
nVan Dyke, Pan. Pac. Ent. 3, 107-108, 1927.
- Neococcidencyrtus—n. gen., alula**  
inCompere, Cal. Univ. Pub. Ent. 4; 8, 209-212, 213-214, 1928.
- Neoconocephalus exiliscanorus—Song**  
Allard, Smithson. R. f. 1928, 583, 1929.
- Neoconocephalus robustus—Song**  
Allard, Smithson. R. f. 1928, 576-588, 1929.
- Neoconocephalus triops**  
Hebard, Trans. Amer. Ent. Soc. 51, 301-302, 1925.  
Morse, Psyche, 33, 53, 1926.
- Neocorixa—n. gen., snowi**  
Hungerford, Bklyn. Ent. Soc. B. 20, 19-20, 1925.
- Neoculex**  
Freeborn, Cal. Univ. Pub. Ent. B. 3, 425, 1926.

**Neodiprion abietis** (Spruce sawfly)\*

i deGryse, Can. Dept. Agr. Ent. Br. Pam.  
47 n. s. rev. ed. 25, 1925.

Peirson, Me. For. Serv. B. 5, 64-65, 1927.

iSwaine & Hutchings, Can. Dept. Agr.  
Ent. B. 28, 28, 1926.

i—— N. Y. State-Conservation Dept.  
R. 18 (1928) 183-186, 1929.

**Neodiprion (Neodiprion) banksianae**

nRohwer, Proc. Ent. Soc. Wash. 27, 115-  
116, 1925.

**Neodiprion lecontei** (Red-headed pine sawfly)\*

ideGryse, Can. Dept. Agr. Ent. Br. Pam.  
47, n. s. rev. ed. 24, 1925.

iMiddleton, U. S. F. B. 1259 rev. Oct.  
1927, 6p.

iPeirson, Me. For. Serv. B. 5, 96, 1927.

iSwaine & Hutchings, Can. Dept. Agr.  
Ent. B. 28, 27, 1926.

**Neodiprion pinetum**

Lieber, Ind. Dept. Conserv. R. 10, 62-  
63, 1928.

Peirson, Me. For. Serv. B. 5, 96, 1927.

Swaine & Hutchings, Can. Dept. Agr.  
Ent. B. 28, 27, 1926.

—— Conn. B. 265, 337-338, 1925.

**Neodiprion sp.**

nGraham, J. Ec. Ent. 18, 337, 1925.

**Neophemera n. gen., bicolor**

McDunnough, Can. Ent. 57, 168-169, '25.

**Neognophomyia trinitatis**

nAlexander, J. N. Y. Ent. Soc. 35, 277-  
278, 1927.

**Neolaparus banana** 3-4, **longicornis** 2-3, **similis** 4-5

nCurran, Amer. Mus. Nov. 272, 1927.

**Neolecanium cornuparvum** (Magnolia scale)\*

Herrick, J. Ec. Ent. 22, 201-202, 1929.

**Neolecanium craspeditae, derameliae**

niMorrison, Ann. Ent. Soc. Amer. 22, 40-  
45, 1929.

**Neonortonia crassata** 301-302, **gracili-**  
**forma** 300-301, **hullensis** 301, **laevis-**  
**sima** 301, **nigripes** 300, **scaposa** 301,  
spp.—Key 179.

Viereck, Can. Ent. 57, 1925.

**Neopalpus—Key**

Alexander, PUSNM 74; 7, 6-8, 1929.

**Neophasia menapia** (Pine butterfly)

biEvenden, J. Agr. Res. 33, 339-344, 1926.

iKeen, Cal. Dept. Nat. Resources Div.  
For. B. 7, 74-79, 1928.

**Neophasia terlooti**

Poling, Can. Ent. 58, 79, 1926.

**Neopheogia cathana**

nSchaus, PUSNM 73; 19, 81-82, 1928.

**Neophysopus burnsi, io**

nGirault, Ins. Insc. Mens. 14, 188-189, '27.

**Neophyto olmaba**

nBrimley, Ent. News 38, 235, 1927.

**Neoponera inversa—Mermis parasitism**

Wheeler, J. Expt. Zool. 50, 178, 1928.

**Neopristomerus stoneri**

nBioreck, Univ. Iowa Stud. Nat. Hist. 11:  
4, 8, 1925.

**Neopsylla striata**

nStewart, Ins. Insc. Mens. 14, 124-126,  
1926.

**Neorileya meridionalis**

nGahan, PUSNM 71; Art. 4, 7-9 1928.

**Neosciara coprophila**

Severin, So. Dak. Ent. R. 15, 38-39, 1924.

**Neosciara pauciseta**

Thomas, Ent. News 40, 223, 1929.

**Neoscleroderma tarsalis**

biBack & Cotton, J. Agr. Res. 33, 450,  
1926.

**Neossos—n. gen., marylandica**

nMalloch, Proc. Ent. Soc. Wash. 29, 90-  
91, 1927.

**Neosteingelia—n. gen.**

nMorrison, Proc. Biol. Soc. Wash. 40,  
101, 1927.

**Neostriicklandia—n. gen., sericata**

nViereck, Can. Ent. 57, 75, 1925.

**Neosymdobius mimicus**

nHottes, Proc. Biol. Soc. Wash. 39, 111,  
1926.

**Neotanaupodus tuberculatus**

niGarman, J. N. Y. Ent. Soc. 33, 85-86,  
1925.

**Neotermes castaneus**

iBequaert, Ent. News 36, 289-294, 1925.  
iBequaert, Harvard Inst. Trop. Biol. &  
Med. Cont. 4, 180-182, 1926.

**Neotermes sanctae-crucis**

nSnyder, J. Wash. Acad. Sci. 15, 396-398,  
1925.

**Neotermes simplicicornis**

ibLight, Cal. C. 314, 16-17, 1929.  
Light, Pan-Pac. Ent. 6, 71, 1929.

- Neotettix proavus**  
Hubbell, Fla. Ent. 9, 42, 1925.
- Neothemasia abditus**  
nHottes, Proc. Biol. Soc. Wash. 39, 112, 1926.
- Neothomasia salicinigra**  
nKnowlton, Pan-Pac. Ent. 3, 199, 1927.  
iKnowlton, Ent. News 39, 233, 1928.
- Neothomasia utahensis**  
niKnowlton, Ent. News 39, 234, 1928.
- Neothremma alicia**  
Dodds & Hisaw, Ecology 6, 127, 1925.
- Neotrigonometopus**  
nMalloch, PUSNM 74; 6, 34-35, 1929.
- Neottiglossa tumidifrons**  
niDownes, Can. Ent. 60, 90-92, 1928.
- Neotypus americanus, lapidator**  
nCushman, PUSNM 67; 23, 1, 1926.
- Neozele n. gen., wheeleri**  
nBrues, Proc. Amer. Acad. Arts & Sci. 61, 275-276, 1926.
- Nepa sardinieosis**  
niHungerford, Bklyn. Ent. Soc. B. 23, 121-122, 1928.
- Nepa spp.**  
iEsaki, Bklyn. Ent. Soc. B. 21, 177-181, 1926.
- Nephanes rugulodorsus**  
nSweetman & Hatch, Bklyn. Ent. Soc. B. 22, 265-266, 1927.
- Nephelodes emmedonia (Bronzed cut-worm)\***  
Curtiss, Iowa R. f. 1927, 35.
- Nephelodes minians, see Nephelodes emmedonia**
- Nephrotoma dampfi**  
niAlexander, Ann. Ent. Soc. Amer. 18, 358-359, 1925.
- Nephrotoma ferruginea**  
iBritton & Anderson, Conn. Tobacco Expt. Sta. B. 6, 89T-90T.  
iZappe, Conn. B. 275, 326, 1926.
- Nephrotoma virgata**  
Alexander, PUSNM 68; 4, 20, 1925.
- Nepterota diagonalis, polingi**  
nCassino, Lepidopterist 4, 78-80, 1927.
- Nepticula hypericella, marmaropa**  
nBraun, Trans. Amer. Ent. Soc. 51, 17, 225-226, 1925.
- Nepticula pomivorella (Serpentine leaf miner)**  
iFox, Ont. Ent. Soc. R. 55, 67-70, 1925.
- Nepticula procastinella**  
nBraun, Can. Ent. 59, 59, 1927.
- Nepticula sericopeza (Maple nepticula)**  
Felt, J. Ec. Ent. 22, 706, 1929.
- Nepticula slingerlandella**  
iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 88-91.
- Nepticula---spp.**  
iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 85-88.
- Nepticula taeniola 226, virgulæ 198-199**  
nBraun, Trans. Amer. Ent. Soc. 51, 1925.
- Neptia contracta (Evergreen span worm)**  
Felt, J. Ec. Ent. 18, 752, 1925.
- Nerius durus**  
nCresson, Trans. Amer. Ent. Soc. 52, 260, 1926.
- Nesalcis haematosticta**  
nDyar, Ins. Insc. Mens. 13, 7, 1925.
- Nessorhinus gen., gracilis**  
Metcalf & Bruner, Bklyn. Ent. Soc. B. 20, 208-209, 1925.
- Neta n. gen.**  
Shannon, Proc. Ent. Soc. Wash. 28, 123, 1926.
- Neumania distincta**  
Miller, Ohio B. 386, 123, 1925.
- Neumania geei**  
nMarshall, Wis. Acad. Sci. Tr. 23, 603, 1927.
- Neumania okobojica**  
nMarshall, Iowa Univ. Stud. 11; 9, 32, 1926.
- Neumania pubescens**  
niMarshall, Ind. Acad. Sci. Proc. 38, 319, 1929.
- Neumania punctata**  
Miller, Ohio B. 386, 123, 1925.
- Neuratelia flexa**  
nVan Duzee, Cal. Acad. Sci. Proc. 17; 2, 44, 1928.
- Neurigona banksi, maculipennis**  
niVan Duzee, PUSNM 74; 10, 30-31, '28.
- Neurigona minima**  
nVan Duzee, Psyche, 32, 179, 1925.
- Neurophuseta ursmaralis**  
nSchaus, Proc. Ent. Soc. Wash. 29, 185, 1927.

**Neuroptera**

Needham, Ent. News 36, 110, 1925.

bSmith, Bklyn. Ent. Soc. B. 20, 165-174, 1925.

**Neurotena ruthae**

nBrimley, Ent. News 36, 75, 1925.

**Neuroterus batatus** 4-5, **distortus** 5, **escharensis** 5-6, **evolutus** 6-7, **exiguus** 7, **fugiens** 12-13, **irregularis** 7-8, **sadlerensis** 9, **saltarius** 11

Weld, P. U. S. N. M. 68, art. 10, 1926.

**Neuroterus** sp.

bPatterson, Biol. B. 54, 196-200, 1928.

**Neuroterus verrucarum**

Balduf, Ent. News 40, 126, 1929.

**Neurothrips williamsi**

nHood, Psyche 32, 63, 1925.

**Nevermannia**—n. gen.

nFisher, Proc. Ent. Soc. Wash. 29, 49, '27.

**Nevermannia dorcatomoides**

Boving, Proc. Ent. Soc. Wash. 29, 51-54, 1927.

niFisher, Proc. Ent. Soc. Wash. 29, 49-50, 1927.

**Nevermannus**—for **Nevermannia** (Fisher)

Fisher, Proc. Ent. Soc. Wash. 29, 116, 1927.

**New Mexico range caterpillar**, *see* **Hemileuca oliviae****Newsteadia americana**, spp.—Key

niMorrison, J. Agr. Res. 30, 147-151, 1925.

**\*New York weevil**, *see* **Ithycerus noveboracensis****Nezara hiliaris**, *see* **Acrosternum hilaris** (Green stink bug)\***Nezara viridula** (Southern green stink bug)\*

Hume, Cult. of Cit. Fruits, 1926, 459-460, 1926.

Snapp, U. S. F. B. 1557, 36, 1928.

iWatson, Fla. B. 183, 393, 1926.

Watson, Fla. Grow. 36; 5, 24-25, 1928.

Watson, Fla. St. Hort. Soc. Proc. 41, 44-47, 1928.

iWatson, Fla. Dept. Agr. Quar. B. 39; 3, 97-99, 1929.

Wolcott, J. Ec. Ent. 20, 429-430, 1927.

**Nicholia eriogoni**, sp.

nKnight, Can. Ent. 61, 215-217, 1929.

**Nicrophorini**—Key

Hatch, J. N. Y. Ent. Soc. 35, 350-351, 1927.

**Nipponerius**

nCresson, Trans. Amer. Ent. Soc. 52, 260, 1926.

**Nipteria petrova**

niSchaus, Proc. Ent. Soc. Wash. 31, 51, 1929.

**Niptus hololeucus**

Gibson & Twinn, Can. Dept. Agr. B. 112, 34, 1929.

Parker & Mabee, Mont. B. 216, 14, 1928.

**Nisoscopocerus** n. gen., **apiculatus**

nBarber, N. Y. Ent. Soc. J. 36, 25-28, 1928.

**Noctua fennica**, *see* **Agrotis fennica** (Black-lined cutworm)**Noctuella rufofascialis**

Bottimer, J. Agr. Res. 33, 802, 1926.

**Noctuidae** (Cut-worms)

Britton & Zappe, Conn. B. 292, 169-170, 1927.

Ripley, Ill. Biol. Monog. 8; 4, 1925.

**Nodocion rufithoracica**, **zelotoides**

niWorley, Ann. Ent. Soc. Amer. 21, 620-621, 1928.

**Noguchi, Hideyo, 1876-1928**

Flexner, Science 69, 653-660, 1929.

**Nomada**

Fox, Pacific Coast Ent. Soc. Proc. 2, 52, 1926.

**Nomada frankei**

nCockerell, J. N. Y. Ent. Soc. 37, 443-444, 1929.

**Nomada klamathensis**—Oregon

nFox, Pan-Pac. Ent. 2, 212, 1926.

**Nomada koreana**

nCockerell, Pan-Pac. Ent. 3, 88-89, 1926.

**Nomada perplexa**

Felt, N. Y. St. Mus. B. 274, 172-173, 1928.

**Nomenclature**, *see* **Zoology**—**Nomenclature****Nomia froggatti**

Cockerell, Pan-Pac. Ent. 3, 82-83, 1926.

**Nomia melvilliana**

nCockerell, Amer. Mus. Nov. 346, 4, 1929.

**Nomina conservanda**

McAtee, Proc. Ent. Soc. Wash. 28, 189, 1926.

McAtee, Science 66, 427, 1927.

**Nomis nortoni**

Parks, Bklyn. Ent. Soc. B. 25, 263, 1928.

**Nomius pygmaeus**

iGibson & Twinn, Can. Dept. Agr. B. 112, 67, 1929.

- Nomophila noctuella*  
Drake & Decker, Iowa C. 103, 15, 1927.  
iEllis, J. Agr. Res. 30, 787, 1925.
- Norraca ordgara*  
nSchaus, PUSNM 73; 19, 89, 1928.
- \**Northern cattle grub*, see *Hypoderma bovis*
- Northern leaf footed bug*, see *Leptoglossus oppositus*
- \**Northern mole cricket*, see *Gryllotalpa hexadactyla*
- Norway maple aphid*, see *Periphyllus lyropictus*
- Norway maple leafhopper*, see *Alebra alboostriella*
- \**Nose botfly*, see *Gastrophilus haemorrhoidalis*
- Notanthidium*—subgen.  
niIsensee, Ann. Carnegie Mus. 17, 373, 1927.
- Notaris* spp.  
Buchanan, Bklyn. Ent. Soc. B. 22, 36-39, 1927.
- Notched wing geometrid*, see *Ennomos magnarius*
- Nothanomaloides* n. gen., *stenosomus*  
Viereck, Roy. Soc. Canada Trans. ser. 3, sec. 5, v. 19, 272, 1925.
- Nothocharis*, n. gen., *bakeri*, *tayabasensis*  
Muir, Pan-Pac. Ent. 1, 162-163, 1925.
- Nothomicrodon aztecum*—Panama  
Shannon, J. Wash. Acad. Sci. 15, 211, '25.
- Nothorhina aspersa*  
Hardy & Preece, Pan-Pac. Ent. 4, 61-62, 1927.
- Nothosympycnus furcatus*, *unipilus*  
nVan Duzee, PUSNM 74; 10, 29-30, 1928.
- Notiophilus obscuratus*  
Fall, Bklyn. Ent. Soc. B. 21, 125, 1926.
- Notocera alataruna*  
nGoding, J. N. Y. Ent. Soc. 36, 44-45, 1928.
- Notocera spinidorsa*  
nGoding, J. N. Y. Ent. Soc. 37, 171, 1929.
- Notochaeta angusta* 23, *comata* 22, *townsendi* 22-23  
nAldrich, P. U. S. N. M. 66, 1925.
- Notodonta grahami*  
nSchaus, P. U. S. N. M. 73; 19, 74, 1928.
- Notoedres cati*  
Miller, Ohio B. 386, 156, 1925.  
Whipple, J. Am. Vet. Med. Assoc. 69, 153, 1926.
- Notoedres minor cuniculi* and *skin mange*  
iSchwartz & Shook, USFB 1568, 5-7, '28.
- Notogonidea luzonensis* (Cricket wasp)  
Swezey, J. Ec. Ent. 19, 717, 1926.
- Notolophus antiqua* (Rusty tussock moth)\*  
iBrittain, N. S. Dept. Nat. Resource B. 12, 35-36, 1927.  
Crowley, Wash. Pop. B. 144, 11, 1928.  
Crowley, Wash. B. 230, 28, 1929.
- Notonecta arabiensis* 280, *bergrothi* 92.  
nHungerford, Ann. Ent. Soc. Amer. 19, 1926.
- Notonecta bicirca*—So. America  
niHungerford, Psyche 33; 12-13, 1926.
- Notonecta bicircoidea*  
nHungerford, Ann. Ent. Soc. Amer. 21, 120, 1928.
- Notonecta bifasciata*  
niHungerford, Psyche 33; 1, 15, 1926.
- Notonecta borealis*  
Hungerford, Can. Ent. 60, 76, 1928.
- Notonecta compacta*, *distincta*  
niHungerford, Can. Ent. 57, 239-241, 1925.
- Notonecta disturbata*  
niHungerford, Psyche, 3; 13-14, 1926.
- Notonecta hoffmani*  
Hungerford, Can. Ent. 57, 241, 1925.
- Notonecta indicoidea*  
nHungerford, Bklyn. Ent. Soc. B. 22, 250, 1927.
- Notonecta lobata*  
niHungerford, Can. Ent. 57, 239, 241, 1925.
- Notonecta mexicana*  
iHungerford, Can. Ent. 57, 238-241, 1925.  
Hungerford, Pan-Pac. Ent. 4, 119-120, 1928.
- Notonecta minuta*, *pulchra*  
niHungerford, Psyche, 33; 14, 1926.
- Notonecta reuteri*  
Hungerford, Bklyn. Ent. Soc. B. 23, 128, 1928.
- Notonecta* spp.  
iHungerford, Psyche, 33; 11-15, 1926.
- Notonecta suensoni*—China  
nHungerford, Ann. Ent. Soc. Amer. 18, 417-418, 1925.
- Notonecta undulata*  
Bare, Ann. Ent. Soc. Amer. 19, 98-99, 1926.
- iblClark, Ecology, 9, 383-403, 1928.

**Notonecta unifasciata**

Hungerford, Pan-Pac. Ent. 6, 73-74, '29.

**Notonecta vereerbruggheni**

nHungerford, Ann. Ent. Soc. Amer. 21,  
119-120, 1928.

**Notonectidae**

bBare, Ann. Ent. Soc. Amer. 19, 93-101,  
1926.

**Notoplusia marchiana, talmecana**

nSchaus, P. U. S. N. M. 73; 19, 20, 1928.

**Notoxus monodon**

iWeese, Ill. Biol. Mon. 9; 4, 13, 1924.

**Notoxus sp.**

Blaisdell, Pan-Pac. Ent. 6, 42, 1929.

**Notoxus vandykei**

niBlaisdell, Pan-Pac. Ent. 6, 57-60, 1929.

**Novius cardinalis (Australian lady beetle)**

Britton, Conn. Pomol. Soc. Proc. 34, 49,  
1925.

Vandenberg, Guam R. f. 1926, 17-18,  
1928.

**Numidicola—n. gen., longicornis**

nEwing, J. Wash. Acad. Sci. 17, 90-91,  
1927.

**Nun moth, see *Psilura monacha*****Nursery insects**

Britton & Zappe, Conn. B. 292, 119-  
173, 1927.

Britton & Zappe, Conn. B. 305, 689-700,  
1929.

Chenoweth, Cal. Assoc. Nurserym.  
Trans. & Proc. 18, 13, 1928.

iChenoweth, Flor. Exch. 67, 1029, 1928.

Drake, Iowa Yrbk. Agr. 28, 138-140,  
1928.

Fleming, J. Ec. Ent. 22, 314-317, 1929.

Fracker, Wis. Dept. Agr. B. 69, 92-94,  
1924.

Haseman, Sullivan, et al, Mo. B. 228,  
50, 1925.

Haseman, et al, Mo. B. 236, 51, 1926.

Marlatt, Flor. Exch. 69, 1645, 1655, '28.

Mote, Ore. St. Hort. Soc. Bien. Rept.  
19, 120-124, 1927.

Smith, Cal. Assoc. Nurserym. Tr. & Proc.  
18, 16-18, 1928.

— Flor. Exch. 60; 21, 1687, 1690, '25.

— Nat. Nurserym. 37; 5, 20, 1929.

**Nusina n. gen.**

Curran, Amer. Mus. Novit. 272, 7, 1927.

**Nut-grass armyworm, see *Spodopterus mauritia*****Nut insects**

Chittenden, Ent. Americana n.s. 7, 138-  
206, 1927.

Cory, Northern Nut Grow. Assoc. Ann.  
Meeting 18, 46-50, 1927.

Flint, No. Nut Grow. Assoc. R. 16, 108-  
118, 1925.

**Nuttall's blister beetle, see *Lytta nuttalli*****Nycteribosca spp.—Key**

Kessel, J. N. Y. Ent. Soc. 33, 21, 1925.

**Nycterimya papuana**

niBequaert, Psyche, 32, 18-22, 1925.

**Nyctodryas parthenomorpha—n. gen. & sp.**

Dyar, Insc. Insc. Mens. 13, 5, 1925.

**Nygmaea phaeorrhoea, see *Euproctis chrysorrhoea*****Nygalaius hartingii**

nibThorne, Amer. Micro. Soc. Trans. 48,  
188-189, 1929.

**Nymphula maculalis**

bWelch & Sehon, Ann. Ent. Soc. Amer.  
21, 243-258, 1928.

**Nymphula obscuralis**

Langford, Cal. Dept. Agr. Mo. B. 18,  
585, 1929.

**Nysius angustatus**

Watson, Fla. Dept. Agr. Quar. B. 39; 3,  
84, 1929.

**Nysius ericae (False chinch bug)\***

Cooley, Mont. B. 170, 25, 1925.

iHawley, Utah C. 54, 26-30, 1925.

iLangford, Colo. Ent. C. 47, 24-25, 1925.

**Nyssus hoplisivora**

Reinhard, J. Wash. Acad. Sci. 15, 172-  
177, 1925.

**Nyssorhynchus**

bDavis, Am. J. Hygiene, 8, 539-563, 1928.

**Nystalea amatura 3-4, biumbata 1-2, eastmani 2, julitha 2-3, parsoni 3**

nSchaus, P. U. S. N. M. 73; 19, 1928.

**Oak insects**

Peirson, Me. For. Serv. B. 5, 94-95, 1927.

**Oak knot gall, see *Andricus punctatus*****Oak leaf roller, see *Tortrix quercifoliana*****Oak lecanium, see *Lecanium quercifex*****Oak plant bug, see *Lygus quercalba*****Oak twig pruner, see *Elaphidion villosum*****Oak span worm, see *Ellopia somnaria*****Oak timber worm, see *Eupsalis minuta*****Oak twig girdler, see *Agrilus angelicus***

- Oak ugly nest tortricid, *see* *Cacoecia fervidana*
- Oarisma era  
nDyar, Pan-Pac. Ent. 4, 7, 1927.
- Oat aphid, *see* *Rhopalosiphum padi*
- Oat thrips, *see* *Anaphothrips striatus*
- Oberea bimaculata (Raspberry cane borer)\*  
iBrittain, N. S. Dept. Nat. Resource B. 12, 62, 1927.  
iChambers, Wis. Hort. 16, 80, 1926.  
F. E. S., Fruits & Gardens, 27; 7, 14, 1929.  
iGarlick, Dom. Canada Agr. B. 114, 20-21, 1929.  
Petch & Armstrong, Quebec Soc. Protec. Plants R. 17, 73, 1925.  
Poos, So. Planter 88: 11, 15, 1927.
- Oberea brooksi  
nWallis, Can. Ent. 58, 94-95, 1926.
- Oberea delongi  
nKnull, Ent. News 39, 12-13, 1928.
- Oberea myops (Blueberry stem borer)  
Champlain, Kirk & Knull, Ent. News 36, 142, 1925.
- iblDriggers, N. Y. Ent. Soc. Jour. 37, 67-73, 1929.
- Oberea ruficollis, spp.  
Champlain, Kirk & Knull, Ent. News 36, 141-142, 1925.
- \*Oblique-banded leaf roller, *see* *Cacoecia rosaceana*
- Oblique-banded strawberry leaf-roller, *see* *Cacoecia obsoletana*
- Obrima pimaensis, rinconada  
nBarnes, & Benjamin, Proc. Ent. Soc. Wash. 27, 126-127, 168, 1925.
- Obrium rufulum  
Champlain, Kirk & Knull, Ent. News 36, 106, 1925.
- \*Obscure scale, *see* *Chrysomphalus obscurus*
- Obtusicauda n. gen., essigi  
niSoliman, Cal. Univ. Pub. Ent. 4, 98-102, 1927.
- Occidentalis—n. gen.  
nDyar & Heinrich, Proc. U. S. N. M. 71, Art. 19, 41, 1928.
- Ocean drifts—Insects in  
bTorre-Bueno, Brklyn Ent. Soc. B. 22, 158-162, 1927.
- Ochlerotatus subgen.  
Freeborn, Cal. Univ. Tech. B. Ent. 3: 1, 367, 1926.
- Ochlodes sylvanoides  
Comstock, S. Cal. Acad. Sci. B. 28, 27, 1929.
- Ochroemia ormioides  
iClausen et al, USDAB 1429, 17-19, '27.  
King, Allen & Hallock, J. Ec. Ent. 20, 366, 1927.  
Smith, N. J. Dept. Agr. Ann. R. 12, 96, 1927.
- Ochrosidia immaculata  
Hayes, Ann. Ent. Soc. Amer. 21, 292, 1928.
- Ochterus brunneus, manni  
niHungerford, Proc. Ent. Soc. Wash. 29, 188-189, 1927.
- Ochthebius bruesi  
nDarlington, Psyche 35, 3-5, 1928.
- Ochthera circularis, pilosa, triornata  
nCresson, Tr. Amer. Ent. Soc. 52, 254-255, 1926.
- Ocnaea falcifer  
nAldrich, P. U. S. N. M. 74; 1, 3-4, 1928.
- Ocnaea flavipes, gigas  
nAldrich, PUSNM 69; 22, 1-2, 1926.
- Ocnerostoma piniariella  
Felt, N. Y. St. Mus. B. 274, 164, 1928.
- Oconemus phairi  
nMcDunnough, Can. Ent. 59, 209-210, 1927.
- Octotoma marginicollis  
Brisley, Tr. Amer. Ent. Soc. 51, 179-180, 1925.  
Van Dyke, Pan-Pac. Ent. 1, 174, 1925.
- Octotoma plicatula  
iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 200-201.
- Odonata  
bByers, Mich. Univ. Occ. Papers 183, 1927, 16p.  
Byers, Ent. News 39, 236-239, 1928.  
Calvert, Iowa Univ. Studies in Nat. Hist. 12: 2, 1928, 44p.  
biGarman, Conn. St. Geol. & Nat. Hist. Surv. B. 39, 1927, 331p.  
Hoffman, Iowa Acad. Sci. Proc. 31, 441, 442, 1924.  
Kennedy, Internat. Cong. Ent. 4, Tr. 2, 978-981, 1929.  
Knull, Ent. News: 40; 273, 1929.



*Odonata Cont'd*

- iMellen, N. Y. Zool. Soc. B. 31, 49, 1928.  
 Montgomery, Ind. Acad. Sci. Proc. 34, 383-389, 1925; 36, 287-291, 1926.  
 Montgomery, Ent. News, 38, 100-105, 1927.  
 iNeedham, Handbook of Dragonflies, 1929, 378p.  
 Randolph, Life among the Dragonflies, 1925, 64p. (Little blue book No. 818).  
 bSeemann, J. Ent. & Zool. 19, 39, 1927.  
 Tillyard, Internat. Cong. Ent. 4, Tr. 2, 543-545, 1929.  
 Walker, Odonata of Canadian Cordillera 1927, 16 p.  
 bWhedon, Biol. B. 56, 177-187, 1929.
- Odonata—Flight**  
 Fernald, J. Ec. Ent. 18, 638, 1925.
- Odonata—Nymphs**  
 bAbbott, Psyche 35, 124-126, 182-185, 1928.  
 iBroughton, Can. Ent. 60, 32-34, 1928.  
 Byers, Can. Ent. 60, 4-6, 1928.  
 iCalvert, Internat. Cong. Ent. 4, Tr. 2, 919-925, 1929.  
 bKnull, Ann. Ent. Soc. Amer. 22, 651-658, 1929.
- Odontaeus alabamensis**  
 niWallis, Can. Ent. 61, 239-241, 1929.
- Odontaeus falli, floridensis**  
 nStewart, Can. Ent. 60, 151-152, 155-156, 1928.
- Odontaeus spp.**  
 Wallis, Can. Ent. 60, 119-128, 1928.
- Odontaeus thoracicornis**  
 niStewart, Can. Ent. 60, 153-155, 1928.
- Odontanaphothrips, n. subg.**  
 Moulton, Pan-Pac. Ent. 3: 1, 24-25, 1926.
- Odontomerus dorothea**  
 nBrimley, Ent. News 36, 74, 1925.
- Odontomerus mellipes**  
 Walley, Can. Ent. 59, 74, 1927.
- Odontomyia annamariae**  
 nBrimley, Ent. News 36, 76, 1925.
- Odontomyia aureovittata** 4-5, **deceptor** 4, **gracilis** 3, **impressa** 1-2  
 nCurran, Amer. Mus. Nov. 324, 1928.
- Odontomyia johnsoni, megantica**  
 nCurran, Can. Ent. 57, 254-255, 1925.
- Odontomyia protrudens, seminuda**  
 nCurran, Amer. Mus. Nov. 324, 2-3, 1928.
- Odontomyia tremolerana**  
 nAldrich, P. U. S. N. M. 74; 1, 1-2, 1928.
- Odontomyia tumida**  
 nBanks, Psyche 33, 42-43, 1926.
- Odontoponera transversa**  
 Creighton, Psyche 36, 150-154, 1929.
- Odopaea walkeri**  
 Myers, Psyche, 35, 120, 1928.
- Odors and Insects**  
 Brown, Amer. Mus. Nov. 299, 1-9, 1928.  
 iClark, Smithsonian Inst. R. f. 1926, 421-446, 1927.
- Odynerus bermudensis**  
 bBequaert, Ann. Ent. Soc. Amer. 22; 578-581, 1929.
- Odynerus conformis, foraminatus**  
 Rau, St. Louis Acad. Sci. Tr. 25, 388-395, 398-400, 1928.
- Odynerus margarettellus**  
 Van Duzee, Pan-Pac. Ent. 6: 47, 1929.
- Odynerus pennsylvanicus**  
 Rau, St. Louis Acad. Sci. Tr. 25, 395-398, 1928.
- Oebalus pugnax**  
 Drew, Fla. St. Hort. Soc. Proc. 40, 44-46, 1927.  
 Flint, Tr. Ill. Hort. Soc. 61, 106, 1927.
- Oecanthus angustipennis (Narrow-winged tree cricket)**  
 Watson, Fla. R. f. 1927, 49R.
- Oecanthus californicus (California tree cricket)**  
 iFulton, Oreg. B. 223, 20, 1927.
- Oecanthus fasciatus**  
 Pettit, Mich. Ent. R. f. 1927, 19.  
 Pettit, Mich. St. Bd. Agr. R. 66, 355, 1927.
- Oecanthus nigricornis (Black-horned tree cricket)\***  
 Chambers, Wis. Hort. 16, 80-81, 1926.  
 biFulton, Iowa St. Col. J. Sci. 1, 43-61, 1926.  
 iFulton, Oreg. B. 223, 13-14, 1926.
- ilGarlick, Canada Agr. B. 114, 21-22, 1929.**  
 iPettit, Mich. Quar. B. 9, 157-158, 1927.
- Oecanthus niveus (Snowy tree cricket)\***  
 Dean Cal. Dept. Agr. Sp. Pub. 54, 44, 1925.  
 biFulton, Ann. Ent. Soc. Amer. 18, 363-368, 1925.  
 iFulton, Oreg. B. 223, 10-13, 1926.  
 Hebard, Tr. Amer. Ent. Soc. 51, 307, '25.

- Iddings, Ida. B. 135, 29, 1925.  
 Merrill, Cal. R. f. 1927-28, 68-76, 1929.  
 Moore, Wis. Ext. C. 186, 19, 1925.  
 Ruhmann, B. C. Dept. Agr. R. 21, N. 41, 1927.  
 Wakeland, J. Ec. Ent. 19, 460-466, 1926.  
 iWakeland, Idaho B. 155, 1927, 29p.
- Oecanthus niveus**—Song  
 Allard, Sm. R. f. 1928, 581-582, 1929.
- Oecanthus** spp.—Oregon  
 iBfulton, Oreg. B. 223, 5-20, 1926.
- Oecanthus varicornia**  
 Hebard, Tr. Amer. Ent. Soc. 51, 307, 1925.
- Oeciaceus vicarius**  
 Gibson & Twinn, Can. Dept. Agr. B. 112, 68, 1929.
- Oecleus perpictus**  
 nVan Duzee, Pan-Pac. Ent. 5, 173, 1929.
- Oecleus subreflexus**  
 nVan Duzee, Proc. Cal. Acad. Sci. 14, ser. 4, 406, 1925.
- Oecliidius hanabanillae, trinitatis**  
 niMyers, Harvard Biol. Lab.—Studies on Cuban Insects 1, 18-19, 1928.
- Oecotheca fidelis**  
 nCurran & Alexander, Can. Ent. 58, 290-291, 1926.
- Oedaleothrips jacksoni**  
 nHood, Ent. News 36, 137-138, 1925.
- Oedemagena tarandi**  
 biHadwen, J. Parasitol. 13, 56-63, 1926.  
 Johnson, Psyche 36, 140, 1929.
- Oedematocera dampfi**  
 Aldrich, J. Ec. Ent. 20, 589-590, 1927.  
 niAldrich, Proc. Ent. Soc. Wash. 29, 17-18, 1927.  
 iGreen, Proc. Ent. Soc. Wash. 29, 18-19, 1927.
- Oedematocera striata**  
 nAldrich, Ent. News 39, 301-304, 1928.
- Oedematopus** n. gen., *crassitibia*  
 niVan Duzee, PUSNM 74; 10, 38-41, '28.
- Oedenops nuda**—n. comb.  
 nCresson, Tr. Amer. Ent. Soc. 55, 183-184, 1929.
- Oedionychis amplivittata**  
 niBlake, PUSNM 70; 23, 24-25, 1927.
- Oedionychis gibbitarsa**  
 Boving, J. Wash. Acad. Sci. 17, 176, 1927.
- Oedionychis lantanae**  
 niBlake, Brklyn. Ent. Soc. B. 23: 95-96, 1928.
- Oedionychis lugens** 11-12, *nigrosignata* 37-38, *obsidiana flava* 40-41, *perivittata* 31-32, *petaurista* 23-24, *spilonota* 36, spp.—revision 44p, *vians* 14  
 niBlake, P. U. S. N. M. 70 Art. 23, 1927.
- Oeme hirsuta**  
 nVan Dyke, Pan-Pac. Ent. 3, 99-100, '27.
- Oeneis jutta**  
 nMcDunnough, Can. Ent. 61, 105-106, '29.
- Oeneis melissa, polixenes**  
 Barnes & Benjamin, Can. Ent. 57, 58, '25.
- Oeneis semidea**  
 Rogers, Brklyn. Ent. Soc. B. 23: 86, 1928.
- Oeneis uhleri**  
 niGunder, Can. Ent. 59, 285-286, 1927.
- Oenopia cinctella**  
 Smith, Cal. Cit. 9, 344, 1925.  
 Smith, Citrus Leaves 5: 8, 3, 1925.
- Oestridae**—Flight  
 Townsend, Sci. Mo. 22, 309-311, Apr. 1926.
- Oestrobilarella** gen., *aristalis*  
 Allen, PUSNM 68; 9, 40-41, 1926.
- Oestrus (Gastrophilus) intestinalis**  
 Corrigan & Corrigan, Canad. Med. Assoc. J. 15, 403-404, 1925.
- Oestrus nasalis**  
 Aldrich, Ins. Insc. Mens. 14, 15-16, 1926.
- Oestrus ovis (Sheep bot fly)\***  
 Bowstead & Sackville, Univ. Alberta Coll. Agr. B. 19, 74, 1928.  
 iBrittain, N. S. Dept. Nat. Resource B. 12, 100-101, 1927.
- biHerms, J. Parasitol. 12, 54-56, 1925.**  
 Iverson, Cal. Agr. B. 14, 224-225, 1926.  
 Stevenson, Ont. Dept. Agr. B. 337, 21-22, 1928.
- Oestrus** sp.—Flight—speed  
 iKetchum, World R. 6, 118, 1928.
- Oestrus** sp.—Reared in man's leg  
 Swift, J.N.Y. Ent. Soc. 35, 102-103, 1927.
- Ofatulena**, n. gen., *luminosa*  
 niHeinrich, U. S. N. M. B. 132, 39-41, 1926.
- "Ogdoconta" carneola**  
 Barnes & Benjamin, Pan-Pac. Ent. 4, 18, 1927.
- Oides niasensis**  
 nBowditch, Psyche 32, 244, 1925.
- Oiketicus abbotti (Abbot's bag worm)**  
 Gowdey, Jamaica Sci. Agr. Dept. Ann. R. f. 1926, 17, 1927.

- Oiketicus dendrokomos*  
 nibJones, Tr. Amer. Ent. Soc. 52, 1-6, 1926.
- Oil spray, *see* Spray materials—Oil.
- Okanagana formosa*  
 nDavis, J. N. Y. Ent. Soc. 34, 181, 1926
- Okanagana gibbera*  
 niDavis, J. N. Y. Ent. Soc. 35, 377-379, 1927.
- Okanagana opacipennis*  
 Davis, J. N. Y. Ent. Soc. 36, 105, 1928.
- Okanagana rimosa*  
 iDavis, N. J. Dept. Agr. Bur. Stat. C. 97, 26-27, 1926.
- Okanagana vagans*  
 Davis, J. N. Y. Ent. Soc. 37, 83, 1929.
- Oleander aphid*, *see* *Aphis nerii*
- Olene lemmeri*  
 nBarnes & Benjamin, Brklyn. Ent. Soc. B. 22, 226, 1927.
- Olene vagans*  
 iBrittain, N. S. Dept. Nat. Resource B. 12, 36, 1927.
- Olethreutes abietana*, *see* *Argyroplote abietana*
- Olethreutes cespitana* (Clover-leaf caterpillar)  
 ibWehrle, N. Y. C. B. 489, 1929, 27 p.
- Olethreutes deprecatoria*  
 niHeinrich, U.S.N.M.B. 132, 177-178, '26.
- Olethreutes hebesana*  
 Ries, Amer. Iris Soc. B. July, 1929, 27-46.  
 Schott, J. N. Y. Ent. Soc. 33, 55, 1925.
- Olethreutes hemidesma*  
 Schott, J.N.Y. Ent. Soc. 33, 55, 1924.
- Olethreutes malachitana*  
 Bottimer, J. Agr. Res. 33, 817, 1926.
- Olethreutes* spp.—Key  
 Heinrich, U.S.N.M. B. 132, 167-169, 1926.
- Olethreutinae*  
 iHeinrich, U.S.N.M. B. 132, 1926, 216 p.
- Olfactometer—Insect  
 iMcIndoo, J. Ec. Ent. 19, 545-571, 1926.  
 McIndoo, Nat. Nurserym. 34, 138, 1926.  
 Snapp & Swingle, J. Ec. Ent. 22, 984, 1929.
- Olfersia vulturis*  
 Ferris, Ent. News 39, 36-37, 1928.
- Oliarus atkinsae*  
 niMyers, Harvard Biol. Lab.—Studies on Cuban Insects 1, 14-15, 1928.
- Oliarus cinereus*  
 Wolcott, Porto Rico Insul. R. f. 1927-28, 90, 1929.
- Oliarus franciscanus* (Black leaf-hopper)  
 Myers, Harvard Inst. Trop. Biol. & Med. Cont. 3, 84-86, 1926.  
 Osborn, J. Ec. Ent. 19, 104, 1926.  
 Osborn, Ref. Bk. Sugar. Indus. of World 4, 48, 1926.  
 Osborn, Porto Rico Dept. Agr. J. 13, 106, 1929.
- Oliarus pinicolus*  
 nOsborn, Ann. Ent. Soc. Amer. 19, 355, 1926.
- Oliarus truncatus*  
 nVan Duzee, Pan-Pac. Ent. 6, 72, 1929.
- Oligarces* sp.—Reversal of function  
 bHarris, Biol. Bul. 48, 139-144, 1925.
- Oligia fragilissima* (Lined stalk borer, Heart worm)  
 iDrake & Decker, Iowa C. 103, 8, 1927.  
 Williams, Ohio B. 417, 44, 1928.
- Oligia violacea*  
 McDunnough, Can. Ent. 59, 211, 1927.
- Oligomyrmex panamensis*  
 nibWheeler, Biol. B. 49, 175-178, 1925.
- Oligoneuria anomala*  
 iNeedham & Murphy, Lloyd Library B. 24, 29-30, 1924.
- Oligotoma hospes*  
 niMyers, Brklyn Ent. Soc. B. 23: 89-90, 1928.
- Olive fruit fly, *see* *Dacus oleae*
- Olive insects  
 Hughes, Cal. Cult. 65, 219, 1925.
- Olla abdominalis*  
 Miller, Fla. B. 203, 457, 1929.  
 iMiller & Thompson, Fla. Ent. 11, 5-7, 1927.  
 Thompson, Fla. Ent. 10, 40-46, 1926.  
 Watson, Fla. B. 183, 306, 365, 1926.
- Olla oculata*  
 Cole, Fla. Hort. Assoc. Proc. 38, 154, 1925.  
 Cole, Fla. St. Hort. Soc. Proc. 39, 156, 1926.
- Olonia*, n. gen.  
 nMuir, Pan-Pac. Ent. 1, 161-162, 1925.
- Olyca junctolineella*  
 Hamlin, Pan-Pac. Ent. 2, 6-11, 1925.

- Olyca subumbrella*  
nDyar, Ins. Insc. Mens. 13, 14, 1925.
- Omaseus ebeninus*  
Blatchley, Can. Ent. 57, 161, 1925.
- Ommatides, n. gen., insignis*  
nMcAtee & Malloch, P.U.S.N.M. 67,  
Art. 13, 23, 33-34, 1926.
- Ommatius amula*  
nCurran, Amer. Mus. Nov. 327, 4-5, 1928.
- Ommatius annulitarsis* 10-11, *brevicornis*  
12, *erythropygus* 12-13  
nCurran, Amer. Mus. Nov. 272, 1927.
- Ommatius exilis*  
nCurran, Amer. Mus. Nov. 327, 5, 1928.
- Ommatius gemma*  
nBrimley, Elisha Mitchell Sci. Soc. J.  
43, 205, 1928.
- Ommatius neotropicus, norma*  
nCurran, Amer. Mus. Nov. 327, 2-3, 1928.
- Ommatius pallidicoxa*  
nCurran, Amer. Mus. Nov. 272, 11-12,  
1927.
- Ommatius ruficauda, spatulatus*  
nCurran, Amer. Mus. Nov. 327, 4-6, 1928.
- Ommatius tinctipennis* 13, *varipes* 14-15,  
*vittatus* 13-14  
nCurran, Amer. Mus. Nov. 272, 1927.
- Ommatius willistoni*  
nCurran, Amer. Mus. Nov. 327, 3-4, 1928.
- Ommatostola lintneri*  
Barnes & Benjamin, Pan-Pac. Ent. 3,  
68, 1926.
- Omphalocera occidentalis*—Distribution  
Barnes & Benjamin, Pan-Pac. Ent. 2,  
188, 1926.
- Omus gen., ambiguus*  
iHamilton, PUSNM 65; 17, 65-67, 1925.
- Omus blaisdelli*  
Blaisdell, Ent. News 36, 80, 1925.
- Omus californicus*  
iHamilton, PUSNM 65; 17, 66, 1925.
- Omus reynoldsi*  
Blaisdell, Ent. News 36, 79, 1925.
- Omus sequoiarum*  
iHamilton, PUSNM 65; 17, 68, 1925.
- Oncerodes, n. gen., robusta*  
nMcAtee & Malloch, P.U.S.N.M. 67,  
Art. 13, 32-33, 1926.
- Oncerometopus aristicutis* 191-192, *im-*  
*pictus* 190-191, *nasutus* 193, *nicheli*  
190, *nitens* 192-193  
nKnight, N. Y. Ent. Soc. 36, 1928.
- Oncideres cingulatus* (Twig girdler)\*  
Baerg, Ark. Pecan Grow. Assoc. Proc.  
3, 22-23, 1929.
- Cory, Northern Nut Grow. Assoc. R.  
18, 50, 1927.
- Eddy, Ohio J. Sci. 27, 198, 1927.
- Flint, No. Nutgrowers Assoc. R. 16,  
110-111, 1925.
- Leiby, N. C. Dept. Agr. B. Feb. 1925,  
52-56.
- iPalmer, Nat. Mag. 8, 231, 1926.
- iPeirson, Me. For. Ser. B. 5, 35, 1927.
- Peirson, Me. For. Serv. B. 5, 93-94, '27.
- iWoodard, Tex. Dept. Agr. B. 81, 174-  
175, 1925.
- Woodward, et al, Tex. Dept. Agr. B.  
95, 145, 1929.
- Oncocnemis arizonensis*  
nBarnes, Pan-Pac. Ent. 5, 6-7, 1928.
- Oncocnemis chorda*  
Barnes & Benjamin, Brklyn. Ent. Soc.  
B. 20, 193, 1925.
- Oncocnemis figurata* 7, *homogena* 6,  
*minor* 7, *ragani* 7-8  
nBarnes, Pan-Pac. Ent. 5, 1928.
- Oncometopia marginula* 170, *minor* 170-  
171, *ocellata* 169-170, *rosipennis* 172  
niOsborn, Annals Carnegie Mus. 16, 1926.
- Oncometopia undata* (Sharp shooter,  
Orange jassid)  
iWatson, Fla. B. 183, 411, 1926.
- Oncomyia aequalis* 594, *angusticornis*  
595, *brevirostris* 593, *infuscipes* 592-  
593, *nigra* 596, *terminalis* 594  
nVan Duzee, Cal. Acad. Sci. Proc. 16;  
18, 1927.
- Oncopeltus fasciatus*—Flagellates  
iHolmes, Biol. B. 49, 323-337, 1925.
- \*Onion maggot, *see* *Hylemyia antiqua*
- \*Onion thrips, *see* *Thrips tabaci*
- Oniscoidea*  
Johannsen, Can. Field Nat. 40, 165-167,  
1926.
- iWalker, Can. Field-Nat. 41, 173-179,  
1927.

- Onthophagus aciculatus*  
Blatchley, Can. Ent. 60, 128, 1928.
- Onthophagus blatchleyi*  
nBrown, Can. Ent. 61, 86, 1929.
- Onthophagus cochisus, cynomysi*  
nBrown, Can. Ent. 59, 132-133, 131-132, 1927.
- Onthophagus floridanus*  
Blatchley, Can. Ent. 60, 128, 1928.
- Onthophagus knausi*  
nBrown, Can. Ent. 59, 143-133, 131-132, 1927.
- Onthophagus medorensis*  
nBrown, Can. Ent. 61, 204-205, 1929.
- Onthophagus oklahomensis*  
nBrown, Can. Ent. 59, 128-130, 1927.
- Oncophora—Neotropical*  
iBrues, Psyche 32, 159-165, 1925.
- Ooencyrtus latiscapus*  
nGahan, P.U.S.N.M. 71, Art. 4, 15-17, 1928.
- Ooencyrtus moneilemae*  
nGahan, Proc. Ent. Soc. Wash. 27, 167-168, 1925.
- Ootetrastichus beatus*  
Agee, Internat. Soc. Sugar Cane Tech. Proc. 2d. Confer. 72, 1927.
- Opelousia flavescens*  
nReinhard, P.U.S.N.M. 76; 20, 3-4, '29.
- Opetiopalpus scutellaris*  
Chapin, Amer. Mus. Novit. 151, 4, 1924.
- Ophelina mucronata*  
iHilton, J. Ent. & Zool. 19, 71-72, 1927.
- Ophideres tyrannus*  
Clausen, U.S.D.A. Tech. B. 15, 9, 1927.
- Ophiogomphus* spp.—Key  
bSeemann, J. Ent. & Zool. 19, 19-20, 1927.
- Ophiola* gen. 185-190, *comptoniana* 189-190, *osborni* 190, *striatula* 189, *uhleri* 187  
nBall, Brklyn. Ent. Soc. B. 23: 1928.
- Ophion chilensis*  
Glover, Ent. News 39, 317, 1928.
- Ophistomis famelica*  
Champlain, Kirk & Knoll, Ent. News 36, 108, 1925.
- Ophyra leucostoma*  
Petch & Hammond, Ont. Ent. Soc. R. 55, 28, 1925.
- Ophyra* sp.—larva  
iTao, Amer. J. Hyg. 7, 754, 1927.
- Ophyra villosa*  
nAldrich, P.U.S.N.M. 74; 1, 6-7, 1928.
- Ophilo grahami*  
nChapin, Proc. Biol. Soc. Wash. 40, 19-20, 1927.
- Opismus quadrilineatus*  
Hardy & Preece, Pan-Pac. Ent. 3: 1, 34-35, 1926.
- Opisthacanthus lepturus*  
Baerg, Ann. Ent. Soc. Amer. 18, 473, 1925.
- Opius bevisi*  
nBrues, Proc. Amer. Acad. Arts & Sci. 61, 261-262, 1926.
- Opius ferrugineus*  
Porter, U.S.D.A. Tech. B. 66, 30, 1928.
- Opius pegomyiae*  
Hawley, Utah C. 54, 26-30, 1925.
- Opius vittator*  
nBrues, Proc. Amer. Acad. Arts & Sci. 61, 261-262, 1926.
- Opsidia* gen., *gonioides*  
Allen, P.U.S.N.M. 68; 9, 41-42, 1926.
- Opsidia intonsa*  
nAldrich, P.U.S.N.M. 74; 1, 8-9, 1928.
- Opsidia metopoides*  
nAllen, P.U.S.N.M. 68, Art. 9, 44, 1926.
- Opsidia* spp.—Key  
Allen, P.U.S.N.M. 68, Art. 9, 42, 1926.
- Opsidiopsis* gen., *oblata*  
Allen, P.U.S.N.M. 68, Art. 9, 44-45, 1926.
- Opsodexia abdominalis, cruciata*  
nReinhard, P.U.S.N.M. 76, 20, 6-9, 1929.
- Opsophagus* n. gen., *nigripalpis, ornatus*  
nAldrich, Tr. Amer. Ent. Soc. 52, 15-16, 1926.
- Opuntia* insects—United States  
Hamlin, Pan-Pac. Ent. 2, 1-11, 1925.  
Hamlin, Pan-Pac. Ent. 2, 97-105, 1926.
- \*Orange dog, *see* *Papilio thoas*
- Orange fruit mite, *see* *Tenuipalpus californicus*
- Orange insects  
iCockerell, Sci. Amer. 83, 375-377, 1927.
- Orange jassid, *see* *Oncometopia undata*
- \*Orange maggot, *see* *Anastrepha ludens*
- Orange rust mite, \*Citrus rust mite, *see* *Eriophyes oleivorus*
- Orange sawyer, *see* *Anoplium* (Elaphid-ion) *inermis*

\*Orange scale, *see* *Aonidiella aurantii*  
 Orange snow scale, *see* *Chionaspis citri*  
 \*Orange-striped oak worm, *see* *Anisota senatoria*

\*Orange thrips, *see* *Scirtothrips citri*  
 Orange tortrix, *see* *Tortrix citrana*  
 Orange worms, *see* *Tortrix citrana*, *Holcocera iceryaeella*

#### Orchard heating

Bowles, Wash. St. Hort. Assoc. Proc. 21, 72-79, 1925.

Brown, Mich. St. Hort. Soc. R. 55, 124-127, 1925.

iDacy, Fla. Gr. 35: 1, 2, 1927.

Ellison, Better Fruit 22: 11, 7, 1928.

iHoffman, Cal. B. 442, 1927, 37 p.

Holden, Western Home, Fruit & Gard. 8: 12, 16, 1926.

Ingerson, Hoosier Hort. 11, 38-41, 1929.

Johnstone, Cal. Cult. 71, 230, 1928.

McCown, Ky. St. Hort. Soc. Tr. 73, 201-207, 1928.

Schoonover & Hodgson, Cal. B. 398, 1925, 69 p.

Schultze, Ind. Hort. Soc. Tr. 67, 38-42, 1927.

Schultze, Ky. St. Hort. Soc. Tr. 72, 148-159, 1927.

Taylor & Philp, Cal. C. 284, 27-28, 1925.

iYates, Amer. Fr. Grow. Mag. 49: 1, 6, 19, 1929.

Young, Oreg. Hort. Soc. 40, 183-194, '25.  
 Rural N. Y. 85: 4886, 267, 1926.

#### Orchard insects

Bourne, Mass. Fr. Grow. Assoc. R. 31, 102-107, 1925.

Bourne, Mass. B. 226, 18-22, 1926.

Bourne, Mass. Fr. Grow. Assoc. R. 32, 168-174, 1926; 33, 174-179, 1927; 34, 72-79, 1928.

Bremmer, Cal. Cult. 73, 514, 1929.

Brittain, N. S. Fr. Grow. Assoc. R. 61, 1925, 59-74.

Brittain, Nova Scotia Dept. Nat. Res. B. 12, 56-58, 1927.

Caesar & Ross, Ont. Ent. Soc. R. 58, 19-23, 1928.

iCardinell et al, Mich. Ext. B. 60, 1928, 8 p.

Crosby, et al, N.Y.C.B. 498, 1929, 80 p.

Davis, Ind. Hort. Soc. Tr. f. 1928, 62-90.  
 Flint, Ill. Hort. Soc. Tr. 59, 239-247, 1926.  
 Flint, Ill. St. Hort. Soc. Tr. 62, 97-109, 1929.

Headlee, N. J. R. 46, 378-386, 1925; 49, 123-124, 139-154, 1928.

iHerrick, Rural N. Y. 87: 357-359, 1928.

Kelsall, Nova Scotia Fr. Grow. Assoc. R. 62, 55-64, 1925.

Lieber, Ind. Dept. Conserv. R. 6, 35-37, 1925; R. 7, 41-42, 1925; R. 8, 41-43, 1926; R. 9, 42-44, 1927; R. 10, 59-61, 1928.

Lipman, N. J. R. 46, 22-23, 1926.

Lipman, N. J. R. 49: 38-40, 1928.

Magill, Ky. St. Hort. Soc. Tr. 70, 155-159, 1925.

Olney & Magill, Ky. C. 118 rev., 24-28, 1926.

Regan, Wash. St. Hort. Assoc. Proc. 23, 64-71, 1928.

Ross & Caesar, Ont. Ent. Soc. R. 58, 15-18, 1928.

Sears, Mass. Ext. Leaf. 68 rev. 1926, 3-7.

Sherwood & Peairs, W. Va. C. 54, 4-8, 1929.

Symons, Md. Ext. Serv. R. 10, 119-120, 1925.

Talbert, Better Crops with Pl. Food, 13: 5, 22-24, 1929.

Wallace, Ind. Dept. Conserv. Div. Ent. R. f. 1924, 8, 1925.

Wallace, Ind. Ent. R. 1927, 22-24.

Wallace, Ind. Dept. Conserv. R. 10, 59-61, 1929.

Webster, Wash. Farm. 58, 269, 1928.

Whitcomb, Mass. B. 247, 318, 1929.

Worthley, Pa. St. Hort. Assoc. News, 6: 1, 80-81, 1929.

iYoung, Tenn. Hort. Soc. Proc. 21, 36-42, 1926.

#### Orchard sanitation

Petry, Ind. St. Hort. Soc. R. 21, 105-109, 1924.

#### *Orchelimum agile*—Song

Allard, Trans. Amer. Ent. Soc. 55, 155-164, 1929.

#### *Orchelimum unispina*

Hebard, Trans. Amer. Ent. Soc. 51, 302, 1925.

- Orchelimum vulgare* (Common meadow grasshopper)  
Allard, Smithson. R. f. 1928, 575, 1929.  
Brownell, Nat. Mag. 8, 79-80, 1926.  
Howes, Nature Mag. 8, 155-157, 1926.
- Orchesia gracilis*  
Blatchley, Can. Ent. 57, 166, 1925.
- Orchestes canus*  
Pettit, Mich. St. Bd. Agr. R. 63, 214-216, 1924.
- Orchestes pallicornis* (Apple flea weevil)\*  
Flint, Amer. Fr. Gr. 46: 9, 20, 1926.  
Houser, Ohio St. Hort. Soc. Proc. 62, 51-56, 1929.  
iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 206-209.  
Porter, Ind. Hort. Soc. Tr. 64, 58, 1925.
- Orchestes rufipes*  
Peirson, Me. For. Serv. B. 5, 123, 1927.
- Orchestes uniformis*  
nBrown, Can. Ent. 61, 110, 1929.
- \**Orchid fly*, see *Eurytoma orchidearum*
- Orectagyrus patromimus*  
nOchs, Ann. Carnegie Mus. 19: 2, 133, 1929.
- Oregma lanigera*  
Hazelhoff, Facts about Sugar 24, 706, 1929.  
Hazelhoff, Internat. Cong. Ent. 4, Tr. 2, 53-61, 1929.
- Oregon pine bark beetle, see *Ips oregoni*
- Oreopasites vanduzeei*  
nCockerell, Proc. Cal. Acad. Sci. ser. 4, 14; 11, 202, 1925.
- Oreopasites euphorbiae*  
nCockerell, Pan-Pac. Ent. 5, 105, 1929.
- Orgizomyia austeni*  
nHine, Amer. Mus. Nov. 285, 4, 1927.
- \**Oriental cockroach*, see *Blatta orientalis*
- \**Oriental fruit moth*, *Oriental peach moth*, see *Laspeyresia molesta*
- Oriental garden beetle*, see *Autoserica castanea*
- \**Oriental moth*, see *Cnidocampa flavescens*
- Oriental rat flea*, see *Xenopsylla cheopis*
- Orimarga dampfi*  
nAlexander, Ann. Ent. Soc. Amer. 19, 162, 1926.
- Orimarga funerula*  
nAlexander, J. N. Y. Ent. Soc. 37, 93, 1929.
- Ormenis devinctus*  
niCockerell, Amer. J. Sci. 11; 66, 502-503, 1926.
- Ormenis pruniosa* (Mealy flata)  
iWalden, Conn. B. 285, 267-268, 1927.
- Ormiscodes cutteri*  
nSchaus, Proc. Ent. Soc. Wash. 29, 101, 1927.
- Ormosia brevicarata*  
nAlexander, J.N.Y. Ent. Soc. 35, 61-62, 1927.
- Ormosia carolinensis*  
nAlexander, Can. Ent. 36, 229, 1925.
- Ormosia cramptoniana*  
nAlexander, Can. Ent. 61, 249, 1929.
- Ormosia garretti*  
nAlexander, Ins. Insc. Mens. 14, 19-20, 1926.
- Ormosia gaspensis*  
nAlexander, Can. Ent. 61, 249-250, 1929.
- Ormosia huronis*, *ingloria*  
niKnowlton, Can. Ent. 61, 20-21, 1929.
- Ormosia ithacana*  
nAlexander, Bklyn. Ent. Soc. B., 24, 29, 1929.
- Ormyromorpha petiolata*, *sexsetosa*  
nGirault, Ins. Insc. Mens. 13, 95, 1925.
- Ormyromorphella bioculata*  
nGirault, Ins. Insc. Mens. 13, 94-95, 1925.
- Ormyrus silvae*  
nGirault, Ins. Insc. Mens. 13, 93, 1925.
- Ormyrus ventricosus*  
Balduf, Can. Ent. 58, 159, 1926.
- Ornamental currant aphid*, see *Macrosiphum ribiellum*
- Ornithodorus coriaceus* ("pajaroelle")  
Chandler, Animal Parasites, ed. 3, 364-365, 1925.
- Ornithodorus megnini* (Spinose ear tick)  
iChandler, Animal Parasites, ed. 3, 365-366, 1925.  
Hall, U.S.F.B. 1330, rev. 9, 1929.  
iImes, U.S.F.B. 1493, 13-15, 1926.  
Whipple, J. Am. Vet. Med. Assoc. 69, 154, 1926.

**Ornithodoros moubata**

iChandler, Animal Parasites, ed. 3, 360, 1925.

iRiley, Nations Health 8, 177, 1926.

**Ornithodoros savignyi**

Chandler, Animal Parasites, ed. 3, 368, 1925.

**Ornithodoros talaje**

bDunn, J. Parasitol. 13, 178-182, 1927.

Dunn, Amer. J. Trop. Med. 9, 507, 1929.

**Ornithodoros venezuelensis**

bDunn, Parasitology, 13, 178-182, 1927.

Dunn, J. Parasitol. 13, 249-255, 1927.

Dunn, Amer. J. Trop. Med. 9, 506-507, 1929.

**Ornithoica 280-285, beccariina 281-282, confluenta 282-283, pusilla 284-285, unicolor 285**

Ferris, Can. Ent. 61, 1929.

**Ornithomyia avicularia**

biEwing, Ann. Ent. Soc. Amer. 20, 245-250, 1927.

Ferris, Can. Ent. 59, 251, 1927.

Spencer, Can. Ent. 61, 257, 1928.

**Ornithoponus americanus**

Johnson, Psyche 34, 33, 1927.

**Ornix alta**

nBraun, Trans. Amer. Ent. Soc. 51, 214-215, 1925.

**Orocharis saltator—Stridulations**

Allard, Smithsonian. R. f. 1928, 584, 1929.

**Oroperipatus corradoi**

iBrues, Psyche 32, 159-160, 1925.

**Orothrips keeni, raii**

nMoulton, Brklyn. Ent. Soc. B. 22, 183-184, 1927.

**Orothrips unguittipennis**

nGirault, Ins. Insc. Mens. 14, 18, 1926.

**Orothrips variabilis**

nMoulton, Brklyn. Ent. Soc. B. 22, 184, 1927.

**Orphilus ater, glabratus**

biMutchler & Weiss, N. J. Dept. Agr. C. 108, 15, 25-26, 1927.

**Orsagrotis incognita**

Hardy, B. C. Prov. Mus. R. f. 1926, C20-C21, 1927.

**Orsodacnini**

Brisley, Pan-Pac. Ent. 4: 2; 54-60, '27.

**Ortalidae**

ibFrost, Ent. News 39, 169-171, 1928.

iFrost, Ent. News 40, 84-87, 1929.

**Orthacheta brunneipennis 102, hirtipes**

103, spp. table 101-102, strigipes 102-103; n Johnson, Psyche 34, 1927.

**Orthaea insularis**

niBarber, Zoologica, N. Y. 5, 246, 1925.

**Orthaea vineta**

Brooks et al, Fla. B. 204, 517, 1929.

**Orthezia balloui, boliviana**

niMorrison, J. Agr. Res. 30, 112-116, 1925.

**Orthezia insignis (Greenhouse orthesia)**

iSeverin, S. D. Ent. R. 15, 29-31, 1924.

**Orthezia longipes 126, mexicana 126-127,**

minor 127-128, pseudograminis 135-136, tillandsiae 138-139

niMorrison, J. Agr. Res. 30, 1925.

**Ortheziinae—Classification**

iMorrison, J. Agr. Res. 30, 97-154, 1925.

**Ortheziidae—New family**

nMorrison, Proc. Biol. Soc. Wash. 40, 100, 1927.

**Orthobelus gen.**

Metcalf & Bruner, Brklyn. Ent. Soc. B. 20, 207, 1925.

**Orthobelus felinus**

nGoding, Trans. Amer. Ent. Soc. 52, 105-106, 1926.

**Orthobelus havanensis, poeyi**

iMetcalf & Bruner, Brklyn. Ent. Soc. B. 20, 207, 1925.

**Orthobelus wolcottii**

nGoding, N. Y. Ent. Soc. J. 36, 37, 1928.

**Orthocladius spinifer**

nJohannsen, J. Ent. & Zool. 20, 33-34, '28.

**Orthognathotermes brevipilosus**

nSnyder, PUSNM 68; 14, 70-71, 1926.

**Ortholfersia raveni, tasmanica**

iFerris, Amer. Mus. Novit. 110, 2-5, 1924.

**Orthomorpha gracilis—Loss from**

Christie, Ind. R. 41, 43, 1928.

**Orthoperus aeneocolis**

nBlatchley, Ent. News 38, 139-140, 1927.

**Orthoperus scutellaris**

Leng, J.N.Y. Ent. Soc. 34, 285-286, 1926.

**Orthopodomyia—Key to spp.**

Dyar, Ins. Insc. Mens. 13, 178, 1925.



**Orthoptera**

iBrownell, Nature Mag. 8, 77-80, 1926.  
 Buckell, Proc. Ent. Soc. B.C. 21, 7-12,  
 1924; 25; 10-14, 1928.

Buckle, B.C. Provin. Mus. R. f. 1927,  
 E15-E16, 1928.

Caudell, Iowa Univ. Stud. 12: 3, 1927,  
 22 p.

Caudell, PUSNM 71; 3, 1928, 42 p.;  
 Art. 7, 1, 1928.

Caudell, Univ. Iowa Stud. Nat. Hist.  
 10: 1, 19, 1922.

iCriddle, Roy. Soc. Canada Proc. & Tr.  
 20 (Sec. 5) 505-525, 1926.

Davis, J.N.Y. Ent. Soc. 34, 27-41, 1926.

Fox, N. J. Dept. Agr. C. 138, 1928, 58 p.

Hebard, Trans. Amer. Ent. Soc. 51,  
 265-310, 1925.

Hebard, Phil. Acad. Nat. Sci. Proc.  
 76, 109-248, 1925; 77, 33-155, 1926;  
 79, 1-20, 1928; 80, 211-306, 1928.

Hebard, Amer. Entom. Soc. Trans. 55,  
 389-399, 1929.

Tanner, Pan-Pacific Ent. 3, 178-179,  
 1927.

**Orthoptera—Auditory organs**

bFulton, Annals Ent. Soc. Amer. 21:  
 445-448.

**Orthoptera—Cannibalistic**

Rummel, Brklyn. Ent. Soc. B. 21, 144,  
 1926.

**Orthoptera—Mites in tracheal system**

bWehrle & Welch, Ann. Ent. Soc. Amer.  
 18, 35-44, 1925.

**Orthoptera—Musical**

Allard, Can. Ent. 61: 195-198, 1929.

**Orthoptera—Physiology**

bBodine, Biol. Bul. 48, 79-82, 1925.

**Orthoptera—Spiracles**

bMcArthur, J. Expt. Zool. 53, 117-128,  
 1929.

**Orthosoma brunneum**

Peirson, Me. For. Ser. B. 5, 70, 1927.

**Orthotylus contrastus** 400, **cupressi** 399,  
**demensus** 398-399; nVan Duzee,  
 Proc. Cal. Acad. Sci. ser. 4, 14, '25.

**Orthotylus fuscicornis**

nKnight, Can. Ent. 59, 177-178, 1927.

nTownsend, Can. Ent. 59, 177-178, 1927.

**Orthotylus minuendus, mistus**

nKnight, Can. Ent. 57, 90-91, 1925.

**Orthotylus notabilis** 176-177, **nyctalis** 181,  
**piceicola** 180-181

nKnight, Can. Ent. 59, 1927.

**Orthotylus plucheae**

nVan Duzee, Proc. Cal. Acad. Sci. ser.  
 4, 14, 397-398, 1925.

**Orthotylus ramus**

nKnight, Can. Ent. 59, 178, 1927.

**Orthotylus spinosus**

nKnight, Brklyn. Ent. Soc. B. 20, 43,  
 1925.

**Orthotylus ulmi, ute**

nKnight, Can. Ent. 59, 179-180, 1927.

**Orthrius crassipes**

nChapin, Proc. Biol. Soc. Wash. 41,  
 125-126, 1928.

**Oryctes rhinoceros (Uang)**

Paul, Trop. Agr. 72, 272-275, 1929.

**Oryssomma—n. gen., schwarzi**

nNotman, PUSNM 67; 11, 4-5, 1926.

**Oryzaephilus surinamensis (Saw-toothed  
grain beetle)\***

iBack & Cotton, U.S.F.B. 1260; rev.  
 Dec. 1925, 30.

biBack & Cotton, J. Agr. Res. 33, 435-  
 453, 1926.

iGibson & Twinn, Can. Dept. Agr. B.  
 112, 32, 1929.

Hamlin & Benton, J. Econ. Ent. 18,  
 790-795, 1925.

iHamlin & Reed, J. Ec. Ent. 618-624, 1927.

Hamlin & Reed, J. Ec. Ent. 20,400, 1927.

biMcMullen, Amer. Nat. 62, 435-445, 1928.

**Oscinella dampfi**

nAldrich, Proc. Ent. Soc. Wash. 31, 90-  
 91, 1929.

**Oscinis frit (Frit fly)**

iWebster, N. Dak. C. 25, 7-8, 1925.

**Osmia genus**

Sandhouse, Can. Ent. 57, 33-41, 1925.

**Osmia atriventris**

iPeattie, Nat. Mag. 14; 167, 1929.

**Osmia lignaria**

Rau, St. Louis Acad. Sci. Tr. 25, 203, 1927.

**Osmia sladeni**

nSandhouse, Can. Ent. 57, 33, 1925.

**Osmia spp.—Canadian**

Sandhouse, Can. Ent. 57, 60-65, 1925.

- Osmia theta*  
nSandhouse, Can. Ent. 57, 34, 1925.
- Osmiinae*—Brigham Young Univ.—List  
Beck, Brklyn. Ent. Soc. B. 24, 303-306, 1929.
- Osmoderma*—Biological notes  
Sweetman & Hatch, Brklyn. Ent. Soc. B. 22, 264-266, 1927.
- Osmosia hubbelli*  
nAlexander, Ins. Insc. Mens. 14, 20-21, 1926.
- Osoiriini* beetles  
Notman, PUSNM 67; 11, 1926, 26 p.
- Osorius* gen. 5, *breviceps* 12-13, *brevipennis* 14-15, *buscki* 19-20, *carinicollis* 15-16, *confusus* 20, *crenulifrons* 18, *difficilis* 17-18, *exiguus* 16, *hubbardi* 11-12, *laeviceps* 15, *manni* 14-19, *morio* 21, *parviceps* 12, *schwarzi* 13, spp.—Key to American 6-11, *variolatus* 17  
nNotman, P.U.S.N.M. 67, Art. 11, 1926.
- Osphyia essigi*  
nVan Dyke, Brklyn. Ent. Soc. B. 23: 255-256, 1928.
- Ostertagia houdemeri*  
nbiSchwartz, J. Parasitol. 13, 25-28, 1926.
- Ostomidae*—New Jersey  
ibMutchler & Weiss, N. J. Dept. Agr. C. 154, 1929, 17 p.
- Otiobius*, *see* *Ornithodoros*
- Otiocerus wolff*  
McAtee, Ill. Nat. Hist. Surv. B. 128, 1926.
- Otiiorhynchus*, *see* *Brachyrhinus*
- Otiiothops macleayi*  
niBanks, B. Harvard Mus. Comp. Zool. 69, 55, 1929.
- Otodectes cynotis*  
iHall, U.S.D.A. Dept. C. 338, 6-7, 1925.  
Johnson, N. Amer. Vet. 10; 9, 41, 1929.  
Price, Ohio Vet. Alumni Q. 17; 1, 31, 1929.  
Whipple, J. Am. Vet. Med. Assoc. 69, 153, 1926.  
Vet. Med. 20, 537, 1925.  
Vet. Med. 22, 437-438, 1927.
- Ouloglène, n. gen., barberi*  
nNotman, PUSNM 67; 11, 3-4, 1926.
- Ovidia, n. gen., conicicollis*  
nGirault, Ins. Insc. Mens. 14, 60-61, 1926.
- Oxaxis fallis*  
nBlatchley, Can. Ent. 60, 63, 1928.
- Oxaxis schistacea*  
Gowdey, Jamaica, Sci. & Agr. Dept. Ann. R. f. 1926, 17, 1927.
- Oxus intermedius*  
niMarshall, Iowa Univ. Stud. 11: 9, 31, 1926.
- Oxybelus* sp.—Note  
Fox, Pan-Pacific Ent. 3, 198, 1927.
- Oxydophyria n. gen., infernalis*  
nTownsend, Ins. Insc. Mens. 14, 40-41, '26.
- \**Oyster-shell scale*, *see* *Lepidosaphes ulmi*
- Ozamia thalassophila*  
nDyar, Ins. Insc. Mens. 13, 15, 1925.
- Ozophora depicturata*  
nBarber, Brklyn Ent. Soc. B. 23, 266-268, '28.
- Pachnaeus litus* (Citrus root weevil)  
iWatson, Fla. B. 183, 409, 1926.
- Pachybrachys indifferens, xanthochrous*  
nFall, Cal. Acad. Sci. Proc. ser. 4, 16; 13, 387, 388, 1927.
- Pachycerina flaviventris*  
nMalloch, PUSNM 74: 6, 20-21, 1929.
- Pachycondyla fuscoatra*  
Wheeler, J. Expt. Zool. 50, 179, 1928.
- Pachycondyla striata*  
iStrelnikov, Psyche 35, 199-200, 1928.
- Pachycysta schildi*  
nDrake, Ent. News 39, 185, 1928.
- Pachygonatopus minimus, nearcticus*  
niFenton, P. U. S. N. M. 72; 8, 6-7, 1928.
- Pachylomerus audouinii*  
Ewing, Am. J. Pharm. 100, 536, 1928.  
iEwing, Amer. Jour. Trop. Med. 8, 47-49, 1928.  
Ewing, U.S. Naval Med. B. 26, 688, 1928.
- Pachylomerus carabivorus*  
ibBaerg, Ent. News 39, 1-4, 1928.
- Pachylomerus eremus, oaxacanus*  
nChamberlin, B. Harvard Mus. Comp. Zool. 67, 211, 212, 1925.
- Pachymenes andeus*  
Bequaert, Brklyn Ent. Soc. B. 20, 138-140, 1925.
- Pachymerus bactris* 159, *nucleorum* 159-160, *olearius* 160.  
nBridwell, Proc. Ent. Soc. Wash. 31, '29.
- Pachymerus quadrimaculata*  
Watson, Fla. Dept. Agr. Quar. B. 39: 3, 100, 1929.

- Pachynematus ochreateus*  
Mitchener & Criddle, Ont. Ent. Soc. R.  
59, 25, 1929.
- Pachyneuron allograptae*  
Kamal, J. Ec. Ent. 19, 725-726, 1926.
- Pachyneuron apidivorum*  
Spencer, Ann. Ent. Soc. Amer. 19, 147-  
148, 1926.
- Pachyneuron siphonophorae*  
Folsom, J. Ec. Ent. 20, 841, 1927.
- Pachyneuron* sp.  
Kamal, J. Ec. Ent. 19, 727, 1926.
- Pachyophthalmus distortus* 15-16, *flori-*  
*densis* 10-12, *hinei* 12-13  
nAllen, P. U. S. N. M. 68, art. 9, 1926.
- Pachyophthalmus ornaticauda*  
nAldrich, P. U. S. N. M. 74; 1, 9-10, 1928.
- Pachyophthalmus signatus* 13-15, spp.—  
key; Allen, PUSNM 68; 9, 1926.
- Pachypappella caudelli*  
nbiMacdougall, Brklyn. Ent. Soc. B. 21, 120-  
123, 1926.
- Pachyprotasis antennata*  
Rohwer, P. U. S. N. M. 68, art. 8, 7, 1925.
- Pachypsylla venusta* (Hackberry petiole  
gall)  
iFerris, Can. Ent. 58, 13-16, 1926.
- Pachyschelus atrifrons, atrovirdis*  
nFisher, Proc. Ent. Soc. Wash. 9, 180, 1929.
- Pachyschelus beniensis* 33-34, *cavinas* 29-30  
nFisher, P. U. S. N. M. 66: 31, 1925.
- Pachyschelus frosti*  
nFisher, Proc. Ent. Soc. Wash. 9, 177-  
178, 1929.
- Pachyschelus laevigatus*  
iNeedham, Frost & Tothill, Leaf-mining  
insects, 1928, 192-193.
- Pachyschelus nigriventris, nudus*  
nFisher, P. U. S. N. M. 66: 31, 31-33, 1925.
- Pachyschelus pittieri*  
nFisher, Proc. Ent. Soc. Wash. 9, 179-  
180, 1929.
- Pachysphinx modesta*  
Cooley, Mont. B. 170, 28, 1925.
- Pachytelia lepidopteris*  
nDyar, Ins. Insc. Mens. 14, 146, 1926.
- Pacific Coast tick*, see *Dermacentor occi-*  
*dentalis*.
- Pacific flathead borer*, see *Chrysobothris*  
*mali*
- Pacific peach twig borer* see *Aegeria opal-*  
*escens*
- Pacific red spider*, see *Tetranychus paci-*  
*ficus*
- Pack's tusker*, see *Leptophlebia packii*
- Paectes oculatrix*—reared from poison ivy  
Criddle, Can. Ent. 59, 99, 1927.
- Paedarium parvum*  
nAldrich, Trans. Amer. Ent. Soc. 52, 22-  
23, 1926.
- Paederus irritans*  
U. S. N. Med. B. 26, 773-776, 1928.
- Paederus* sp.  
Chamberlain, Pan. Canal Health Dept.  
R. f. 1926, 22-23.  
Curry, Proc. Med. Assoc. Isthmian Canal  
Zone 15: 37, 1927.  
U. S. Naval Med. B. 26, 773, 1928.
- \*Painted beauty, see *Vanessa virginiensis*
- \*Painted lady, see *Vanessa cardui*
- Pajaroello tick*, see *Ornithodoros coriaceus*
- Palaeopus costicollis*  
Somerville, J. Jam. Agr. Soc. 28, 202-  
203, 1924.
- Palaminus bifidus* 14-15, *dubius* 16, *lengi*  
14, *parvipennis* 14, *procerus* 16-17,  
*pusillus* 15, *scitulus* 15  
nNotman, Amer. Mus. Nov. 386, 1929.
- Pale-marked ash borer*, see *Eburia quad-*  
*rigeminata*
- Pale-sided cutworm*, see *Feltia malefida*
- \*Pale-striped flea beetle, see *Systema*  
*taeniata blanda*
- \*Pale tussock-moth, see *Halisidota tessel-*  
*laris*
- \*Pale western cutworm, see *Porosagrotis*  
*orthogonia*
- Paleacrita vernata* (Spring canker worm)\*  
Bailey, Comm. Agr. Vt. Bien. R. 13,  
51, 1926.  
iBritton & Zappe, Conn. B. 292, 121, 1927.  
deGryse, Can. Dept. Agr. Ent. Br. Pam. 47  
n. s., rev. ed. 17-19, 1925.
- iPeirson, Me. For. Serv. B. 5, 56-57, 1927.
- Spittall, Proc. Acadian Ent. Soc. 10,  
64, 1925.
- Swaine & Hutchings, Can. Dept. Agr.  
Ent. B. 28, 13-14, 1926.
- Weinland, Calif., Cult. 69, 7, 1927.
- Pales weevil*, see *Hylobius pales*
- Palm insects*—Bruchidae  
Bridwell, Proc. Ent. Soc. Wash. 31, 141-  
160, 1929.

- Palmacorixa mexicana**  
nHungerford, Pan-Pac. Ent. 4: 2; 94-95, 1927.
- \*Palmer worm, *see* *Ypsolophus ligulella*
- Palmodus laeiventrīs**  
Cowan, U. S. D. A. Tech. B. 161, 23, 1929.
- Palorus ratzeburgi**  
iBack & Cotton, U. S. F. B. 1260; rev. Dec. 1925, 36.
- Palpexorista, phoroceroīdes**  
nTownsend, Ins. Insc. Mens. 14, 28-29, 1926.
- Paltostoma argyrocineta**  
nCurran, Amer. Mus. Nov. 245, 1-2, 1927.
- Palus**—n. subgen.  
niDeLong & Slesman, Ann. Ent. Soc. Amer. 22, 85, 1929.
- Palyates natalius**  
iGudger, Nat. Hist. 25, 269, 1925.
- Pamcaloma abba**  
nSchaus, PUSNM 73; 19, 55-56, 1928.
- Pamera spp. control**  
Brooks et al., Fla. B. 204, 517, 1929.
- Pamera vineta (Strawberry pamera)**  
Scholl & Stephens, Texas Dept. Agr. B. 84, 20, 1925.  
Watson, Fla. Dept. Agr. Quar. B. 39: 3; 124-135, 1929.
- Pamillia affinis** 45, **nyctalis** 44, **pilosella** 45  
nKnight, Brklyn. Ent. Soc. B. 20, 1925.
- Pammaerus**  
nAldrich, P. U. S. N. M. 72; 7, 24, 1928.
- Pammegischia aroueti**  
nGirault, Ins. Insc. Mens. 14, 136-137, 1926.
- Pamphilo californica**  
Holland, Ent. News, 326-328, 1929.
- Pamphilo juba**  
nBell, J. N. Y. Ent. Soc. 35, 175-176, 1927.
- Pamphobeteus sp.**  
Ewing, Am. J. Pharm. 100, 537, 1928.  
Ewing, Amer. Jour. Trop. Med. 8, 46-47, 1928.  
Ewing, U. S. Naval Med. B. 26, 698, 1928.
- Panamia ornata**  
iMcAtee & Malloch, PUSNM 67; 1, 36, '25.
- Panara brevilinea**  
nSchaus, Proc. Ent. Soc. Wash. 30, 48, 1928.
- "Panchatantra," Insects of the**  
Weiss, J. N. Y. Ent. Soc. 33, 223, 1925.
- Panchlora aurora**  
niHebard, Proc. Phila. Acad. Nat. Sci. 78, 209-211, 1926.
- Panchlora irrorata**  
niHebard, Phila. Acad. Nat. Sci. Proc. 76, 129, 1925.
- Panchlora regalis**  
niHebard, Proc. Phila. Acad. Nat. Sci. 78, 211-212, 1926.
- Pancratium mealy bug, see Pseudococcus simplex**
- Pandemis limitata**  
Gilliatt, Ont. Ent. Soc. R. 58, 34-35, 1929.
- Pandemis pyrusana**  
Merrill, Cal. R. f. 1927-28, 69, 1929.
- Pandora moth, see Coloradia pandora**
- Pangaeus bilineatus**  
Watson, Fla. Dept. Agr. Quar. B. 39: 3; 126-127, 1929.
- Pangaeus californicus**  
Blatchley, Ent. News 40, 74-75, 1929.
- Pangonia rappellii**  
iChandler, Animal Parasites ed. 3, 486, 1925.
- Pangoninae key to genera**  
Hine, Mich. Univ. Mus. Zool. Occas. Papers 162, 2-3, 1925.
- Pangonius atrifera** 8, **delta** 6-7, **filipalpis** 6-7, **flavohirta** 5, **melanoplus** 8, **prasini-ventris** 5-6, **saussurei** 7, **seminuda** 8, **spp.**—key 4-5, **translucens** 7-8  
Hine, Mich. Univ. Mus. Zool. Occas. Papers 162, 1925.
- Paniscomima erlangeriana**  
Brues, Psyche 33; 18-19, 1926.
- Paniscus platypes**  
nCushman, P. U. S. N. M., 76; 25, 6-7, 1929.
- Paniscus spp., biology**  
ibVance, Ann. Ent. Soc. Amer. 20, 405-417, 1927.
- Panolis flammea**  
Keller, J. Ec. Ent. 19, 191, 1926.
- Panolis griseovariegata**  
Webber, J. Ec. Ent. 20, 302, 1927.
- Panolis piniperda**  
Pfister, Amer. R. of R's 73, 107, 1926.
- Panscopus bufo** 31, **costatus** 33-34, **pallidus** 31-32, **rugicollis** 31, **schwarzi** 30-31, **spp.** Review 25-36, **tricarinatus** 32-33  
niBuchanan, Proc. Ent. Soc. Wash. 29, 1927.
- Pantala flavescens**  
Davis, J. N. Y. Ent. Soc. 33, 189, 1925.  
Felt, N. Y. St. Mus. B. 274, 118, 1928.

- Pantala** spp. Key  
bSeemann, J. Ent. & Zool. 19, 31-32, 1927.
- Pantographa limata**  
Peirson, Me. For. Serv. B. 5, 32, 1927.
- Pantomorus godmani**  
iBessig, Insects of Western No. Amer. 1926, 491.
- Panurgus melanocephalus**  
nCockerell, Pan-Pacific Ent. 3, 80-81, 1926.
- Paonias excaecata**  
Cockerell, Bklyn. Ent. Soc. B. 24: 244; 1929.
- Papaipema cataphracta**  
Bird, Can. Ent. 58, 251-252, 1926.  
Drake & Decker, Iowa C. 103, 7-8, '27.
- Papaipema driboi**  
nBarnes & Benjamin, Pan-Pacific Ent. 2, 112, 1926.
- Papaipema humuli**  
Bird, Can. Ent. 57, 304, 1925.
- Papaipema inquaesita**  
Bird, Can. Ent. 59, 92-96, 1927.
- Papaipema nebris nitela** (Stalk borer)\*  
iBritton & Zappe, Conn. B. 292, 170-171, 1927.  
Caffrey & Worthley, USFB 1548, 44, '27.  
Compton, Canning Trade, 48; 51, 12, 1925.  
Compton, Ill. C. 297, 27, 1925.  
Curtiss, Iowa R. f. 1927, 33-34.  
Davis, Ind. Acad. Sci. Proc. 35, 306, 1925.  
Davis, Ind. Acad. Sci. Proc. 38, 302, 1929.  
iDrake, Iowa Yrbk. Agr. 28, 129-130, 1928.  
Headlee, N. J. Hort. Soc. Proc. f. 1926, 33.  
Kendall, N. H. B. 221, 12-13, 1926.  
Lieber, Ind. Dept. Conserv. R. 8, 54-55, 1926; R. 9, 51-52, 1927; R. 10, 65, '28.  
Lowry, N. H. Tech. B. 34, 1927, 23 p.  
M., W., Florists' Rev. 58, 34, 1926.  
MacLeod, Penn. St. Ext. C. 122; 16, 1929.  
iMiller, Flower Grow. 11, 474, 1924.  
ilhMohler, Kans. St. Bd. Agr. Quar. R. 48: 191, 210-211, 1929.  
Mote, Oreg. C. 65, 35-36, 1926.  
Neiswander, Ohio Farm. 164, 532-533, 1929.  
iPettit, Mich. Sp. B. 183, 28, 1929.  
Slagg, Phytopathology 16, 758, 1926.  
Wallace, Ind. Dept. Conserv. Div. Ent. R. f. 1927, 31, 1928.  
Webster, No. Dak. C. 25, 14-15, 1925.
- Papaipema nebris nitela**—Host plants  
Lowry, N. H. Tech. B. 34, 9-10, 1927.
- Papaipema nitela**, *see* **Papaipema nebris nitela**
- Papaipema ochroptena**  
Bird, Can. Ent. 57, 304, 1925.
- Papaipema pertincta**  
Bird, Can. Ent. 58, 250-251, 1926.
- Papaipema pterisii**  
Bird, Can. Ent. 59, 92-96, 1927.
- Papaipema purpurifascia**  
Ross & Caesar, Ont. Ent. Soc. R. 59, 22, 1929.
- Papaipema** spp.  
nBird, Can. Ent. 57, 303-306, 1925.  
Lowry, N. H. Tech. B. 34, 1927, 23 p.
- Papaipema speciosissima**  
Bird, Can. Ent. 59, 92-96, 1927.  
nWyatt & Beer, Ent. News 38, 215-216, '27.
- \***Papaya fruit fly**, *see* **Toxotrypana curvicauda**
- Paper wasps**, *see* **Polistes** species
- Paphia** (**Raphia**?) **piazzi**  
nHill, So. Cal. Acad. Sci. B. 26: 1, 7, 1927.
- Papilio ajax**  
Barnes & Benjamin, Can. Ent. 57, 59, 1925.  
iMd. Acad. Sci. Quar. B. 5; 4, 59, 1926.
- Papilio asterias** (Swallow-tail)  
iKeil, Nature Mag. 10, 183-4, 1927.
- Papilio aurivillianus**  
niAvinoff, Ann. Carnegie Mus. 16, 355-356, 1926.
- Papilio belus**  
nSchaus, Proc. Ent. Soc. Wash. 30, 46-47, 1928.
- Papilio crespontes**  
iHinds, La. Ext. C. 122, 21-22, 1929.  
iHume, Cultivation of Citrus Fruits, 1926, 428-431.  
iWatson, Fla. B. 183, 402-403, 1926.
- Papilio daunus**  
Barnes, Pan-Pac. Ent. 5, 5, 1928.
- Papilio ehrmanni**  
nabEhrmann, Brklyn Ent. Soc. B. 20, 84, 1925.
- Papilio eurymedon**  
Gunder, Ent. News 36, 200, 1925.
- Papilio garleppi**  
iAvinoff, Ann. Carnegie Mus. 16, 356-357, 1926.
- Papilio glaucus** (Tiger swallowtail)\*  
Clark, Psyche 33, 4, 1926.  
Forbes, Ent. News 39, 126-127, 1928.  
Lutz, Nat. Hist. 25, 133, 1925.

- iHolland, Sci. Mo. 29, 45-48, 1929.  
 iPreble, Nature Mag. 6, 31, 1925.
- Papilio machaon**  
 Nakagara, Brklyn Ent. Soc. B. 22, 220-221, 1927.
- Papilio paeon**  
 nCockerell, Proc. Ent. Soc. Wash. 29, 48, 1927.
- Papilio paradoxa**  
 Nakahara, Ins. Insc. Mens. 14, 46, 1926.
- Papilio philenor** (Pipevine swallowtail)  
 iBritton & Zappe, Conn. B. 292, 156, 1927.
- Papilio polyxenes** (Black swallowtail)\* (Celery worm)\* (Parsley worm)\*  
 Fernald, Applied Ent. ed. 2, 301, 1926.  
 MacLeod, Penn. St. C. 122, 24, 1929.  
 MacLeod, Penn. St. Ext. C. 24, 1929.  
 Martin, Rur. N. Y. 88, 862, 1929.  
 Watson, Fla. Dept. Agr. Quar. B. 39; 3; 84, 1929.
- Papilio polyxenes**  
 iMd. Acad. Sci. Quar. B. 5; 4, 64, 1926.
- Papilio stewarti**  
 niAvinoff, Ann. Carnegie Mus. 16, 356, 1926.
- Papilio thoas** (Orange dog)\*  
 iDelcurto, Halstead & Halstead, Texas Dept. Agr. B. 79, 97, 1925.  
 Gowdey, Jamaica Sci. & Agr. Dept. Ann. R. f. 1927, 20, 1928.
- Papilio turnus** *see* **Papilio glaucus**
- Parabombylius albopenicillatus**  
 Painter, Ent. News 37, 75, 1926.
- Parabombylius ater** 75, **dolorosus** 75-76, **maculosus** 78, **pulcher** 76, **spp.—key** 74-75, **subflavus** 76-77, **vittatus** 77-78  
 Painter, Ent. News 37, 1926.
- Paracalocoris novellus**  
 nBlatchley, Ent. News 37, 163-164, 1926.
- Paracarotomus cephalotes**  
 Gahan, Proc. Ent. Soc. Wash. 27, 188, 1925.
- Paracelostoma sp.**  
 nMorrison, Proc. Biol. Soc. Wash. 40, 102-103, 1927.
- Paracelyphus testaceus**  
 Malloch, P. U. S. N. M. 74: 6, 7, 1929.
- Paraceramius lusitenicus**—Nest  
 Bequaert, Psyche 36, 79, 1929.
- Parachabora umbrescens**  
 Dyar, Ins. Insc. Mens. 14, 185, 1927.
- Parachalcerinys coccidoxenoides**  
 Girault, Ins. Insc. Mens. 14, 130, 1926.
- Parachalcerinys nonaericornis**  
 nGirault, Ins. Insc. Mens. 13, 97, 1925.
- Paracinyra**  
 nFisher, P. U. S. N. M. 65, Art. 9, 133, 1925.
- Paracinyra viridimaculata**  
 nFisher, P. U. S. N. M. 65, Art. 9, 134, 1925.
- Paraclemensia acerifoliella** (Maple leaf-cutter)  
 iHutchings, Quebec Soc. Protec. Plants R. 17, 43-45, 1925.  
 Hutchings, Quebec Soc. Protec. Pl. R. 18, 113, 1926.
- iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 79-83.  
 Peirson, Me. For. Serv. B. 5, 84, 1927.  
 Petch, Ont. Ent. Soc. R. 59, 18, 1929.  
 Petch & Armstrong, Quebec Soc. Protec. Plants R. 17, 75, 1925.
- iSwaine & Hitchings, Can. Dept. Agr. Ent. B. 28, 11-12, 1926.
- Paraclius acuticornis** 51-52, **albimanus** 47-48, **albitalus** 42-43, **aldrichi** 45-46, **angustipennis** 42, **argentimanus** 48-49  
 niVan Duzee, P. U. S. N. M. 74; 10, 1928.
- Paraclius bequaerti**  
 nAmer. Mus. Novitates, 391, 6-7, 1929.
- Paraclius frontalis**  
 niVan Duzee, P. U. S. N. M. 74; 10, 49-50, 1928.
- Paraclius keiferi**  
 nVan Duzee, Pan-Pac. Ent. 3, 146-147, '27.
- Paraclius latitibia**  
 niVan Duzee, P. U. S. N. M. 74; 10, 46-47, 1928.
- Paraclius magnicornis**  
 nVan Duzee, Pan-Pacific Ent. 3, 146, 1927.
- Paraclius parvicauda** 44, **simplex** 43-44, **terminalis** 50-51  
 niVan Duzee, P. U. S. N. M. 74; 10, 1928.
- Paraclunio alaskensis**  
 iSaunders, Ann. Ent. Soc. Amer. 21: 531-537, 1928.
- Paracoelostoma n. gen., peruviana**  
 nMorrison, Proc. Biol. Soc. Wash. 40, 102-103, 1927.
- Paracolletes festivus** 6, **franki** 5, **maximus** 9, **perminutus** 2  
 nCockerell, Amer. Mus. Novit. 343, 1929.
- Paracolletes philonesus**  
 Cockerell, Psyche, 36, 242, 1929.
- Paracolletes punctiventris** 4, **tropicalis** 1  
 nCockerell, Amer. Mus. Novit. 343, 1929.
- Paracraga halophora**  
 nDyar, Proc. Ent. Soc. Wash. 30, 10, 1928.

**Paracymus gen.**

Winters, Pan-Pacific Ent. 3, 56-58, 1926.

**Paradevescovina n. gen., nana**

niKirby, Cal. Univ. Pub. Zool. 29, 114-115, 1926.

**Paradichlorobenzene, see Insecticides—Paradichlorobenzene.****Paradyschiria lineata, spp.—Key**

nKessel, J. N. Y. Ent. Soc. 33, 27, 1925.

**Paragara n. gen., tholoidea**

nGoding, J. N. Y. Ent. Soc. 34, 245-246, 1926.

**Paragrilus holomelas 27-28, opacipennis 26-27, pulchellus 28-29, purpureus 25-26; nFisher. PUSNM 66; 31, 1925.****Parajulus impressus**

biHefner, Trans. Amer. Micro. Soc. 48, 321-339, 1929.

**Parajulus paiutus—Utah**

nChamberlin, Pan-Pacific Ent. 2, 60, 1925.

**Parakalumma—n. gen.**

nibJacot, B. Harvard Mus. Comp. Zool. 69, 6-8, 1929.

**Paralechia pinifoliella (Pine needle miner)**

Peirson, Me. For. Serv. B. 5, 99, 1927.

**Paraleptomastix abnormis**

Watson, Fla. R. f. 1924, 79R.

**Paraleurodes naranjæ**

niDozier, J. Agr. Res. 34, 853-855, 1927.

**Paraleurodes perseæ (Bay White fly)**

Watson, Fla. B. 183, 346, 1926.

**Paralimna concors 189, nubifer 187, punctipennis n. comb. 184, sana 185-186, sinensis 189**

nCresson, Trans. Amer. Ent. Soc. 55, 1929.

**Paralispe aldrichi**

nCurran, Can. Ent. 58, 217-218, 1926.

**Parallaxis n. gen., clathrata**

nMcAtee, J. N. Y. Ent. Soc. 34, 154, 157, 1926.

**Parallaxis ornata**

niObsorn, Annals Carnegie Mus. 18, 266, 1928.

**Parallaxis respersa**

nMcAtee, J. N. Y. Ent. Soc. 34, 156, 1926.

**Parallaxis rufula**

niOsborn, Annals Carnegie Mus. 18, 267, '28.

**Parallaxis sp.—key 154, tessellata 154-155, vacillans 154**

niMcAtee, J. N. Y. Ent. Soc. 34, 1926.

**Paramesius laetus**

nFouts, Proc. Ent. Soc. Wash. 29, 170-171, 1927.

**Paranagrus optibiles**

Agee, Internat. Soc. Sugar Cane Tech. Proc. 2d. Confer. 72, 1927.

**Paranaphoidea eucalypti**

nGirault, Ins. Insc. Mens. 13, 94, 1925.

**Parandra marginicollis 40, punctiflata 40, spp.—key 38-40**

nSchaeffer, Brklyn. Ent. Soc. B. 24, 1929.

**Paranomalon sp.**

Snow, J. Ec. Ent. 18, 608, 1925.

**Paranthrene palmi.**

Engelhardt, Brklyn. Ent. Soc. B. 22, 251, 1927.

**Paranthrene robiniae**

iThompson, Oreg. St. Bd. Hort. Bien. R. 19, 135-138, 1927.

**Parantoniae binodos**

nGoding, Trans. Amer. Ent. Soc. 52, 108-109, 1926.

**Paraopsimus bidentatus**

nChamplain & Knoll, Ent. News 37, 205-206, 1926.

**Parapamea**

nBird, J. N. Y. Ent. Soc. 35, 181-182, 1927.

**Parapheromia cassinoi**

nMcDunnough, Can. Ent. 59, 277, 1927.

**Paraphia esther**

nBarnes, Pan-Pac. Ent. 5, 11-12, 1928.

**Paraphysopus n. gen.**

nGirault, Ins. Insc. Mens. 14, 188, 1927.

**Paraphytis n. gen., vittata**

nCompere, Trans. Amer. Ent. Soc. 51, 129-133, 1925.

**Paraponera clavata**

iBequaert, Harvard Inst. Trop. Biol. & Med. Cont. 4, 250-253, 1926.

Lutz, Amer. Mus. Nov. 388, 3, 1929.

**Parasa hilarata**

biMills, Am. J. Hygiene 5, 342-363, 1925.

**Parasetigena segregata**

Webber, J. Ec. Ent. 20, 304, 1927.

**Parasites**

iAaron, Sci. Amer. 133, 184-185, 1925.

Atwell & Stearns, Oreg. St. Bd. Hort.

Portland Insectaries R. f. 1927, 41 p.

Box, Sugar B. 6: 17; 5-6, 1928.

Brock, Cal. Cult. 64, 585, 1925.

Davis, Ind. Farm. Guide, 85, 829, 842, 1929.

Delcurto, Halstead & Halstead, Tex. Dept. Agr. B. 79, 103-104, 1925.

- Etchegoyhen, J. Am. Vet. Med. Assoc. 70: 1, 44, 1926.
- Hall, Vet. Med. 23, 572, 1928.
- Hall, Vet. Med. 24, i. e. 23, 4, 1928.
- Hegner, Science 64, No. 1650, xii-xiv, '26.
- Herns, Mil. Surg. 57, 517-528, 1925.
- Holloway, Sugar B. 6: 18; 5, 1928.
- Howard, J. Ec. Ent. 19, 271-292, 1926.
- Howard, Smithson. Inst. R. f. 1926, 411-420, 1927.
- Kamal, J. Ec. Ent. 19, 726, 1926.
- McAttee, Sci. Mo. 26: 7, 77-80, 1928.
- Merrill, Cal. R. f. 1924-25, 44-45, 1926.
- Orton, Fla. Grower 34: 939, 16, 1926.
- Parshley, Amer. Mercury 2, 333-335, J1, 1924.
- Pearse, Ecology 7, 113-119, 1926.
- Poos, Proc. Ent. Soc. Wash. 30, 145-150, 1928.
- Sherman, S. C. Clemson Col. Wkly. News Notes 14; 45, 1926.
- Shilinger, Vet. Med. 22: 10, 401-410, 1927.
- Swezey, Internat. Cong. Ent. 4, Tr. 2, 366-367, 1929.
- iThone, Sci. News Let. 15, 289-291, 1929.
- Vickery, Proc. Ent. Soc. Wash. 27, 137-141, 1925.
- Webber & Dowden, J. Ec. Ent. 18, 860, 1925.
- Wolfe, Sunset 57, 45-46, 1926.
- Parasites—Domestic animals**
- Bishopp, Farm & Ranch 45: 49, 2, 5, 24-25, 1926.
- Bruce, Kans. Ent. Soc. J. 1, 74-75, 1928.
- iHall, U. S. D. A. Dept. C. 338, 1925, p. 1-3.
- Price, Vet. Alumni Quart. 17: 1, 29-33, 1929.
- Stevenson, Ont. Dept. Agr.—Agr. & Exp. Union, R. 50, 55-60, 1928.
- Parasites—Handling**
- Jones, J. Ec. Ent. 19, 311-325, 1926.
- Parasites—Importation of useful**
- Science—Supplement 64, 1663: xii, 1926.
- Smith, Cal. Cit. 9, 312, 344, 1925.
- Parasites of animals**
- Ferris, Ent. News 40, 337-341, 1929.
- iEwing, Manual of external parasites, 1929, 225 p.
- iKaupp, Animal parasites, ed. 4 rev. 1925, 250 p.
- Schwartz, Amer. Fur Growers Mag. 4: 4, 20-21, 1929.
- Cornell Rur. School Leaf, 18: 3, 21-23, 1925.
- Parasites of birds**
- bDobrosky, Biol. B. 48, 274-281, 1925.
- Spencer, Can. Ent. 60, 257-260, 1928.
- Parasites—Rearing**
- Flanders, Pan-Pac. Ent. 2, 157-158, 1926.
- Parasites and taxonomy**
- Metcalf, Sm. Misc. Coll. 81: 8, 1929, 36 p.
- Parasites and weather**
- bShelford, J. Ec. Ent. 19, 283-289, 1926.
- Parasitica—Cocoon spinning**
- McMurray, Ent. News 37, 118-119, 1926.
- Parasitism—Biological phenomenon**
- Stunkard, Sci. Mo. 28, 349-362, 1929.
- Parasitism—Effects on host and on parasite**
- Herns, J. Ec. Ent. 19, 316, 1926.
- Parasitism of insects**
- iWheeler, Jour. Expt. Zool. 50: 2, 165-237, 1928.
- iWilliams, Rur. N. Y. 87, 1003, 1928.
- Parasitology**
- Bass, Science 67, 454-456, 1928.
- Herns, Military Surgeon 57: 5, 518-528, 1925.
- Ward, Science 64: 231-236, 1926.
- Parasitus inaequalis**
- Miller, Ohio B. 386, 135, 1925.
- Parasitus sp.**
- Frison, Ann. Ent. Soc. Amer. 19, 225, 1926.
- Parasol ant, see *Atta texana***
- Parasphcodes tripunctatus** 12, willattae 11
- nCockerell, Amer. Mus. Nov. 346, 1929.
- Parastichtis bicolorago**
- iCruml, USDA Tech. B. 88, 128-132, '29.
- Parasyntormon rotundicornis**
- nVan Duzee, Can. Ent. 58, 57-58, 1926.
- Paratenodera sinensis (Chinese mantis)\***
- iChamplain, Farm J. 51: 5, 18, 1927.
- iDidlake, Ent. News 37, 169-174, 1926.
- Engelhardt, Brklyn Ent. Soc. B. 23: 249, 1928.
- Fernald, Applied Ent. ed. 2, 79, 1926.
- Headlee, N. J. R. 46, 372, 1925.
- Thierolf, Ent. News 39, 112-116, 1928.
- bThierolf, Ent. News 39, 140-145, 1928.
- Paratetranychus citri, see *Paratetranychus pilosus***



**Paratetranychus heteronychus (Date mite)**  
 Skinner, Ariz. Com. Agr. & Hort. R. 15-16,  
 57, 1927.

**Paratetranychus ilicis**

Miller, Ohio B. 386, 105, 1925.

**Paratetranychus pilosus (Citrus red spider,  
 European red spider\*)**

Bourne, Amer. Fruit Grow. Mag. 49; 8, 8,  
 1929.

Bourne, Mass. Fruit Grow. Assoc. R. 35,  
 119, 1929.

iBrittain, N.S. Dept. Nat. Res. B. 12, 53-55,  
 1927.

Brittain, Ont. Ent. Soc. R. 59, 8, 1929.

Britton, Mass. Fr. Grow. Assoc. R. 31, 124-  
 125, 1925; R. 32, 175-180, 1926.

Britton & Zappe, Conn. B. 292, 130, 140,  
 1927.

iBrock, Cal. Cit. 14, 426, 1929.

Brock, Cal. Dept. Agr. Mo. B. 18, 250-  
 251, 1929.

Brock, Cit. Leaves 9: 7, 10-11, 1929.

Brock, Cit. Leaves 9: 8, 21, 1929.

Cory, Penin. Hort. Soc. Tr. 42, 109-110,  
 1929.

Crosby, et al, N. Y. C. B. 498, 7-45, 1929.

iCummings, Vt. Ext. C. 40, 9-10, 1927.

iCummings, Vt. Ext. C. 49, 9, 1929.

Cutright, Ohio St. Hort. Soc. Proc. 60,  
 185, 1928.

D. W. P., Cit. Leaves 9: 4, 8, 1929.

Dean, Kans. St. Hort. Soc. Bien. R. 39,  
 34-35, 1928.

Garman, Conn. B. 265, 304-305, 1925.

iHaack, Amer. Fr. Grow. Mag. 48: 3, 3-4,  
 1928.

Hamilton, Md. B. 264, 181-238, 1924.

Hamilton, N. J. C. 187, 1926, 8 p.

Headlee, N. J. R. 46, 371, 1925.

Headlee, N. J. Hort. Soc. Proc. f. 1926, 100-  
 103.

Headlee, N. J. R. 1926-1927, 124-127, 1928.

biHeadlee & Ginsburg, N. J. B. 469, 3-15,  
 1929.

Headstrom, Sci. 68, 38, 1928.

Herrick, N. Y. St. Hort. Soc. Proc. 74, 6-7,  
 1929.

iHerrick, Rur. N. Y. 88: 5045, 326, 1929.

Houser, Ohio St. Hort. Soc. Proc. 59, 96-  
 100, 1926; 60, 106-108, 1927.

Houser, J. Ec. Ent. 21, 311-312, 1928.

Houser, Ohio B. 341, 73, 1929.

Kelsall, N. S. Fr. Grow. Assoc. 65, 74, 1929.

Lipman, N. J. R. 47, 16-17, 1927.

McGregor & Newcomer, J. Ec. Ent. 20, 429,  
 1927.

ibMcGregor & Newcomer, J. Agr. Res. 36,  
 157-181, 1928.

Miller, Ohio B. 386, 103-104, 1925.

Motherwell, Canada Min. Agr. R. f.  
 1929, 131.

. Newcomer & Yothers U. S. D. A. Tech.  
 B. 25, 1927, 34 p.

ilNewcomer & Yothers, U. S. D. A. Tech.  
 B. 89, 1929, 67 p.

iPettit, Mich. Ent. R. f. 1926, 21.

iPettit, Mich. St. Bd. Agr. R. 65, 281-  
 283, 1926.

Phipps, Me. Ext. C. 100, 5, 1929.

iRoss, Can. Dept. Agr. Ent. Br. C. 39,  
 1925, 4 p.

Ross, Farm. Advoc. 60, 685, 1925.

Ross, Canad. Hort. 41, 25-26, 1928.

Sanders, J. Ec. Ent. 20, 313-314, 1928.

Spittall, Proc. Acad. Ent. Soc. 10, 68, 1925.

Stearns, N. J. R. 47, 195-196, 1927.

Webster, Wash. Farm. 61, 133, 1929.

Williams, Ohio B. 417, 46, 1928.

Woglum, LaFollette & Landon, Cal. Fr.  
 Gr. Exch. B. 4, 23, 1927.

Worthley, Pa. St. Hort. Assoc. News, 6;  
 1, 81-82, 1929.

Zappe, Conn. B. 305, 728, 1929.

**Paratetranychus ununguis (Spruce mite)**

iBritton & Zappe, Conn. B. 292, 167, 1927.

de Gryse, Can. Dept. Agr. Ent. Br. Pam.  
 47, n. s. rev. 26, 1925.

McDaniel, Mich. Ext. B. 76: 11-12, 1929.

Pettit, Mich. Ent. R. f. 1926, 20.

iPettit, Mich. Bd. Agr. R. 65, 281, 1927.

Ryle, Penn. Crop Protec. Inst. 4; 7, 2,  
 1925.

**Paratetranychus yothersii**

Hamilton, N. J. C. 179, 13-14, 1926.

Miller, Ohio B. 386, 103-104, 1925.

**Paratettix texanus (Grouse locust)—Color  
 patterns.**

bNabours & Foster, Biol. B. 56, 129-155,  
 1929.

**Paratettix texanus—Polyandry**

Nabours, Amer. Nat. 61, 531-538, 1927.

**Paratettix toltecus (Toltecan grouse locust)**

Hebard, Tr. Amer. Ent. Soc. 51, 269, 1925.

Hubbell, Fla. Ent. 9, 42-43, 1925.

- Parathalassius melanderi**  
iCole, J. Ent. & Zool. 17, 56-57, 1925.
- Paratheresia signifera**  
Earle, Facts about Sugar 22, 969, 1927.  
Jaynes, J. Ec. Ent. 22, 841, 1929.  
Rosenfeld, Facts about Sugar 21, 1207, 1926.  
Rosenfeld, Trop. Plant Res. Found. Sci. Cont. 6, 18, 1926.
- Paratiphia magna**  
nRoberts, Psyche 36, 358-359, 1929.
- Paratoxopoda varicosa**  
nCurran, Amer. Mus. Nov. 339, 8-9, 1929.
- Paratrechina longicornis**  
Felt, N. Y. St. Mus. B. 274, 171-172, 1928.
- Paratricylea vittata**  
nCurran, Amer. Mus. Nov. 248, 7, 1927.
- Paratrigonidium coloratum, javanicus**  
nCaudell, P U S N M 71; 3, 40-41, 1928.
- Paratrioza cockerelli (Potato psyllid)**  
iFerris, Can. Ent. 57, 47, 1925.  
List, Colo. Ent. C. 47, 16, 1925.  
Merrill, Cal. R. f. 1927-28, 56, 1929.  
Sorenson, Utah B. 209, 55, 1929.
- Parcoblatta caudelli**  
Davis, J. N. Y. Ent. Soc. 33, 188-189, 1925.
- Pardalophora apiculata**  
Buckell, Proc. Ent. Soc. B. C. 25; 12, 1928.
- Parectopa albicostella**  
nBraun, Tr. Amer. Ent. Soc. 51, 213-214, 1925.
- Parectopa spp.**  
iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 130-132.
- Parharmonia pini**  
Peirson, Me. For Serv. B. 5, 101, 1927.  
iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 44, 1926.
- Parhelophilus anniae**  
Curran & Fluke, Wis. Acad. Sci. Tr. 22, 237-238, 1926.
- Parhelophilus brooksi**  
nCurran, Can. Ent. 59, 90-91, 1927.
- Parhelophilus divisus 238-240, fruteorum 240-241, integer 244-245, laetus 241-243, obsoletus 246-247, porcus 232-234, rex 234-237, spp. 230-232, versicolor 243; iCurran & Fluke, Wis. Acad. Sci. Tr. 22, 1926.**
- Paria canella (Strawberry root worm)\***  
Essig, Insects of Western No. Amer. 1926, 468-469.  
French, Mass. Ext. Leaf. 29: 11, 1928.  
Garlick, Dom. Canada Agr. B. 114, 18, 1929.  
Irish, Soc. Amer. Florists Proc. 37, 72, 1921.  
iMacoun & Davis, Canada Dept. Agr. B. 80 (n. s.), 45, 1927.  
Marcovitch, Tenn. Ext. Pub. 102, 1926, 4 p.  
Merrill, Cal. R. f. 1927-28, 70-71, 1929.  
Scholl & Stephens, Tex. Dept. Agr. B. 84, 16-17, 1925.  
Smith, La. Ext. C. 113: 30-31, 1928.  
biWeigel, U. S. D. A. B. 1357, 1926, 48 p.
- Paria juniperi**  
nBlatchley, Ent. News 38, 143, 1927.
- Parlatoria blanchardi (Parlatoria date scale)\***  
Bartlett, Cal. Dept. Agr. Sp. Pub. 54, 16-17, 1925.  
Boyden, Date Grow. Inst. R. 6, 13-14, 1929.  
Marlatt, USDA FHB R. f. 1928, 38-39.  
iSkinner, Ariz. Com. Agr. & Hort. R. 15-16, 50-55, 1925.  
— USDA PQCA SRA 97, 96-97, 1928.  
— USDA PQCA SRA 99, 79-80, '29.
- \*Parlatoria datescale, see Parlatoria blanchardi**
- Parlatoria pergandei (Chaff scale)\***  
Delcurto, Halstead & Halstead, Tex. Dept. Agr. B. 79, 85-86, 1925.  
Hinds, La. Ext. C. 122, 10, 1929.  
iHume, Cultivation of Citrus Fruits, 1926, 436-437.  
Watson, Fla. B. 183, 317-318, 1926.
- Parnassius stubbendorfi**  
nNakahara, Ins. Insc. Mens. 14, 46-47, 1926.
- Parnethothrips dracaenae**  
iHerrick, Ent. News 36, 181-182, 1925.
- Paroecanthus aztecus**  
Hebard, Tr. Amer. Ent. Soc. 51, 308, 1925.
- Paroecanthus hesperus**  
niHebard, Phil. Acad. Nat. Sci. Proc. 76, 243-244, 1925.
- Paroecanthus mexicanus**  
Hebard, Tr. Amer. Ent. Soc. 51, 309, 1925.
- Paroecidius lutzi**  
niMyers, Harvard Biol. Lab.—Studies on Cuban Insects 1, 20, 1928.
- Parolyca asthenosoma—n. gen.**  
Dyar, Proc. Ent. Soc. Wash. 30, 137, 1928.

- Parooderella simplicifrons*  
nGirault, Ins. Insc. Mens. 14, 61-62, 1926.
- Parornix prunivorella*  
Needham, Frost & Tothill, Leaf-mining insects, 1928, 119-120.
- Parotermes* gen.  
Snyder, Proc. Biol. Soc. Wash. 38, 159-160, 1925.
- Parsley stalk weevil*, see *Listronotus latiusculus*
- \**Parsley worm*, see *Papilio polyxenes*
- \**Parsnip webworm*, see *Depressaria heraciliana*
- Parthenicus albellus* 120, *aureosquamis* 127-128, *baccharidis* 125-126  
nKnight, Ohio J. Sci. 25, 1925.
- Parthenicus brunneus*  
nVan Duzee, Proc. Cal. Acad. Sci. 14, ser. 4, 400-401, 1925.
- Parthenicus cuneotinctus*  
nKnight, Ohio Sci. 25, 129, 1925.
- Parthenicus discalis*, *grex*  
iVan Duzee, Proc. Cal. Acad. Sci. 14, ser. 4, 403-404, 1925.
- Parthenicus irroratus* 124, *micans* 123-124, *nicholi* 119-120, *oreades* 122-123.  
nKnight, Ohio J. Sci. 25, 1925.
- Parthenicus pallidicollis*  
nVan Duzee, Proc. Cal. Acad. Sci. 14, ser. 4, 402-403, 1925.
- Parthenicus pictus* 121-122, *rubrinervis* 124-125, *rubromaculosus* 126, *rufivenosus* 128, *rufusculus* 126-127  
nKnight, Ohio J. Sci. 25, 1925.
- Parthenicus sabulosus*  
nVan Duzee, Proc. Cal. Acad. Sci. 14, ser. 4, 401-402, 1925.
- Parthenicus selectus*  
nKnight, Ohio J. Sci. 25, 121, 1925.
- Pasadores*  
iStahl & Scaramuzza, Trop. Pl. Res. Found. B. 10, 9-15, 1929.
- Passalus cornutus* (Horned *passalus*)  
Hayes, Ann. Ent. Soc. Amer. 21, 295, 1928.
- biLewis, Ohio J. Sci. 26, 11-24, 1926.
- Patroboidea* n. gen., *rufa*  
nVan Dyke, Pan-Pac. Ent. 2, 69, 1925.
- Patrobus* (?) *kudiensis*  
niCockerell, P. U. S. N. M. 68, Art. 5, 5-6, 1925.
- Pauropus*—Immature stages  
Hilton, Jour. Ent. & Zool. 21, 129, 1929.
- \**Pavement ant*, see *Tetramorium caespitum*
- Paxilla obesa*  
Hubbell, Fla. Ent. 9, 43, 1925.
- \**Pea aphid*, see *Illinoia pisi*
- \**Pea moth*, see *Laspeyresia nigricana*
- \**Pea weevil*, see *Bruchus pisorum*
- Peach & plum slug*, see *Eriocampoides amygdalina*
- Peach & prune root-borer*, Western *peach borer*\*, see *Aegeria opalescens*
- \**Peach bark beetle*, see *Phthorophloeus liminaris*
- \**Peach borer*, see *Aegeria exitiosa*
- Peach, cat-facing*  
Christie, Ind. R. 40, 37-38, 1927.
- Peach insects*  
Brannon, N. C. Ext. C. 153, 11 p.  
Brock, Ill. Hort. Soc. Tr. 58, 505-511, 1925.  
Crosby, et al, N. Y. C. B. 498, 65-66, 1929.  
Drew, N. Y. Hort. Soc. Proc. 71, 212-213, 1926.  
Duruz, Better Fruit 21:1, 9, 1926.  
Farley, Pa. St. Hort. Assoc. News 6; 1, 28-29, 1929.  
Howard, U. S. D. A. Ent. R. f. 1926, 1-2.  
Leiby, N. C. Dept. Agr. Bien. R. 1926-28, 43, 1929.  
Marlatt, U. S. D. A. Ent. R. f. 1928, 3-5.  
Marlatt, U. S. D. A. Ent. R. f. 1929, 3-4.  
iMason, Spraying, 302-320, 1928.  
Morrison, N. Y. Geneva R. 47:47-48, 1928.  
Porter, Hoosier Hort. 7, 19-24, 1925.  
Ross, Farm. Advoc. 60, 417, 1925.  
Ross, Ont. Fruit Grow. Assoc. R. 56, 60, 1925.  
Snapp, Ga. Hort. Soc. Proc. 50, 52-56, 1926.  
iSnapp, U. S. F. B. 1557, 1928, 42 p.  
Snapp, Tenn. St. Hort. Soc. Proc. 24, 68-74, 1929.  
Snapp and Swingle, J. Ec. Ent. 22, 98-101, 1929.  
iTalbert, Amer. Fr. Grow. Mag. 48:6, 6-7, 1928.  
Urbahns, Cal. Cult. 73, 507, 1929.
- \**Peach twig borer*, see *Anarsia lineatella*
- Peanut insects*  
Watson, Fla. Ent. 12, 39-46, 1928.
- Pear fruit borer*, see *Nephopteryx rubrizonella*
- Pear insects*  
Crosby, et al, N. Y. C. B. 498, 47-53, 1929.  
Hedrick, N. Y. Geneva R. 48, 53-54, 1929.  
Morrison, N. Y. Geneva R. 47, 46-47, 1928.

- Mote, Oreg. Hort. Soc. Ann. Meet. 40, 105-115, 1925.
- Thatcher, N. Y. Geneva R. 45, 38, 1926.
- Thatcher, N. Y. Geneva R. 46, 45-46, 1927.
- \*Pear leaf blister mite, *see* Eriophyes pyri.
- \*Pear midge, *see* Contarinia pyrivora
- \*Pear plant bug, *see* Lygus communis
- \*Pear psylla, *see* Psyllia pyricola
- \*Pear slug, *see* Eriocampoides limacina
- \*Pear thrips, *see* Taeniothrips pyri
- Pearl crescent, *see* Phyciodes tharos
- Pecan budmoth, *see* Proteopteryx bolliana
- \*Pecan case bearer, *see* Acrobasis juglandis
- Pecan catocala, *see* Catocala viduata
- Pecan cigar case-bearer, *see* Haploptilia caryaefoliella
- Pecan cossid, *see* Cossula magnifica
- Pecan curculio, *see* Contrachelus elegans
- Pecan insects
- Baerg, Ark. Pecan Grow. Assoc. Proc. 3, 19-23, 1928.
- Bratley, Flower Grow. 32; 25, 20, 1925.
- Fabis, Amer. Nut. J. 18: 6, 79, 1923.
- iGladney, et al, Miss. St. Plant Bd. Quar. B. 8: 3, 1-7, 1928.
- Hamner, Miss. St. Pl. Bd. Quar. B. 8, 1, 1-4, 1928.
- Harned, Miss. R. 37, 26, 1924.
- !Harned, Miss. St. Pl. Bd. Quar. B. 8: 4, 14-16, 1925.
- Harned, Miss. R. 38, 26-28, 1925; R. 40, 26-28, 1928; R. 41, 24-25, 1928.
- Langston, Miss. R. 39, 17-18, 1927.
- ilLeiby, N. C. Dept. Agr. B. Feb. 1925, 67 p.
- Locklin, W. Wash. B. 6W new ser. 25, 1927.
- Lyle, Miss. St. Pl. Bd. Quar. B. 6: 3, 10-11, 1929.
- Newell, Fla. R. f. 1927-28, 48 R.
- Roper, Questions and answers about pecan growing, 1927, 14.
- Stuckey & Kyle, Pecan growing, 1925, 161-181.
- Watson, Fla. R. f. 1924, 79 R.
- Watson, Fla. R. for 1925, 39 R-40 R.
- Watson, Fla. R. f. 1926, 48R-50 R.
- Watson, Fla. R. f. 1927, 47R-49R.
- Watson, Fla. R. f. 1928: 48R-49R.
- iWoodard, Texas Dept. Agr. B. 81, 165-183, 1925.
- ilWoodard, et al, Tex. Dept. Agr. B. 95, 136-154, 1929.
- Pecan leaf case-bearer, *see* Acrobasis nebulella
- Pecan lithocolletis, *see* Lithocolletis caryae-foliella
- Pecan nut case bearer, *see* Acrobasis caryae
- Pecan phyloxera *see* Phylloxera devastatrix
- Pecan sesia, *see* Sesia scitula
- Pecan shoot borer, *see* Acrobasis caryae
- Pecan shuckworm, Hickory shuckworm\* *see* Laspeyresia caryana
- Pecan spittle bug, *see* Clastoptera obtusa
- \*Pecan weevil, *see* Balaninus caryae
- Pectinophora gossypiella (Pink boll worm)\*
- Baker, Virgin Isl. R. f. 1925, 16, 1926.
- Ballard, J. Ec. Ent. 18, 641, 1925.
- Becker, Assoc. So. Agr. Workers, Proc. 28, 146-149, 1927.
- iBerly, S. C. C. 32, 22, 1924.
- Coad, J. Econ. Ent. 22: 743-750, 1929.
- Dennis, Natl. Geogr. Mag. 49, 292, 1926.
- Fenton, Internat. Cong. Ent. 4, Tr. 2, 439-447, 1929.
- Fracker, J. Wash. Acad. Sci. 18, 433-434, 1928.
- Harned, Miss. St. Pl. Bd. Q. B. 7: 4, 5, 1928.
- Hinds, Bur. Farm. 3; 8, La. Farm Bur. Feder. News Sec. April 1928, p. 17, 18.
- biHoldaway, Internat. Cong. Ent. 4, Tr. 2, 73-80, 1929.
- Hunter, Miss. St. Pl. Bd. Quar. B. 2, 1-2, 3, 1922.
- Jacobsen, Cal. Dept. Agr. Mo. B. 17: 665, 671-672, 1928.
- Lyle, Miss. St. Pl. Bd. Quar. B. 8, 1, 5-7, 1928.
- McDonald, Tex. Com. Agr. R. 17, 30-31, 1924; R. 18, 16-18, 1925; R. 19, 22-24, 1926.
- McDonald, Internat. Cong. Ent. 4, Tr. 2, 552-554, 1929.
- Marlatt, U. S. D. A. FHB R. f. 1926, 2.
- Marlatt, U. S. D. A. FHB R. f. 1927, 25-29.
- Marlatt, U. S. D. A. FHB R. f. 1928, 30-36.
- iOhlendorf, U. S. D. A. B. 1374, 1926, 64 p.
- ilSanborn & Rude, Okla. Ext. C. 247, 1928, 8 p.
- Schoffelmayer, Valley Farmer & Citrus Grower 3; 9, 11, 1925.
- Tellez, La Hacienda, 20, 88, 1925.

**Pectinophora gossypiella** *Cont'd*

Terrell Tex. Com. Agr. R. 18, 4-5, 1925.

Vorhies, Ariz. R. 33, 219-220, 1925.

Wolcott, Internat. Cong. Ent., Tr, 2, 68-72, 1929.

**Pectinophora gossypiella** — **Eradication hearings**

—U.S. House Com. Agr. Pink Bollworm erad. hearings April 2-5, 1928, H. J. Res. 237, Ser. L. pt. 1-2, Cong. 70, Session I, 1928, 110 p.

**Pectinophora gossypiella**—**Parasites**

biWillard, U.S.D.A. Tech. B. 19, 1927, 16 p.

**Pectinophora gossypiella**—**Quarantine**

Bentley, Tenn. Plant Dis. Control B. 44, 83-84, 1924.

Bentley, Tenn. Plant Dis. Control B. 47, 13, 1926.

Dunlap, U.S.D.A. Fed. Hort. Bd. 1927, 5 p.

Dunlap, USDA FHB SRA, 92, 117-121, 1928.

Glover, USDA FHB SRA 82, 91, 1925.

Hunter, USDA FHB SRA 84, 63-69, '24.

Hyde, Cotton & Cotton Oil News 30: 42, 12, 1929.

Jardine, USDA FHB SRA 86, 3-8, 1926.

Jardine, USDA FHB SRA 85, 89-90, 1925; 95, 47-48, 1928.

Marlatt, USDA FHB SRA 86, 1-2, 1926; 92, 116-117, 1927.

Marvin, USDA FHB SRA 91, 85, 1927.

Marvin, U.S.D.A. P.Q.C.A. SRA 97, 122-125, 1928.

Moody, U.S.D.A. P.Q.C.A. SRA 95, 49-50, 1928.

Regar, U.S.D.A. F.H.B. SRA 87, 27-28, 1926.

Sudworth, U.S.D.A. F. H. B. SRA 84, 69-70, 1925.

iTerrell, USDA FHB SRA 85, 84-89, 1925; 96, 85-88, 1928.

Wallace, USDA FHB SRA 86, 2-3, 1926.

—U.S. Fed. Hort. Bd. SRA 82, 16, 1925.

—U.S.D.A. F.H.B. SRA 83, 29-32, 1925; 90, 49, 1927.

—U. S. D. A. P.Q.C.A. NQ 52 rev. Nov. 15, 1928, 2 p.

—USDA PQCA SRA 94, 1-4, 16, 1928; 95, 24-26, 47, 1928; 97, 104-106, 1928; 98, 3, 41-43, 1929; 99, 123-124, 1929.

—U.S.D.A. P.Q.C.A. [N.Q. 52 rev Oct. 31, 1929, 2 p.

**Pedicia cockerelli**

niAlexander, PUSNM 68; 4, 9-10, 1925.

**Pedicia margarita**

nAlexander, Bklyn. Ent. Soc. B. 24, 300-302, 1929.

**Pediculoides ventricosus** (Straw itch mite)

iChandler, Animal Parasites, ed. 3, 337, 1925.

Felt, N. Y. St. Mus. B. 274, 52, 1928.

Gilbertson, S. D. B. 217, 22, 1925.

Grove, J. Immunol. 12, 263-271, 1926.

Larson, Pan Pacific Ent. 2, 93-95, 1925.

Miller, Ohio B. 386, 147, 1925.

ibTaylor, Psyche, 34, 157-163, 1927.

**Pediculopsis graminum** (Grass mite)

Bradbury, Elisha Mitchell Sci. Soc. J. 42, 94-98, 1926.

Parker, Blue anchor 5: 12, 20, 73, 1928.

**Pediculus atelophilus**

bniEwing, PUSNM 68; 19, 9-10, 1926.

**Pediculus capitis**, *see* **Pediculus humanus****Pediculus chapini**

bniEwing, PUSNM 68; 19, 13-15, 1926.

**Pediculus corporis**, *see* **Pediculus humanus****Pediculus** genus—**Distribution**

bniEwing, PUSNM 68; 19, 1926, 30 p.

**Pediculus humanus** (Head louse)\*

iBrittain, N. S. Dept. Nat. Resource B. 12, 108-109, 113-114, 1927.

iChandler, Animal Parasites ed. 3, 389, '25.

Felt, N. Y. St. Mus. B. 274, 43-47, 1928.

Fernald, Applied Ent. ed. 2, 166, 1926.

Guyton, Pa. Dept. Agr. Gen. B. 432, 16, 1927.

Hermes, Pan-Pacific Ent. 2, 53, 1926.

Maheux, Quebec. Soc. Protec. Pl. R. 18, 102, 1926.

**Pediculus humanus**—**Trench fever**

McKinley, P. R. Rev. Pub. Health 4: 11, 548-554, 1929.

**Pediculus humanus**—**Typhus**

Breinl, J. Infect. Dis. 34: 1, 1-12, 1924.

McKinley, P. R. Rev. Pub. Health 4: 11, 543-548, 1929.

**Pediculus humanus corporis** (Body louse)\*

Plotz, Med. Dept. U. S. Army, World War 6, 372, 1926.

**Pediculus** spp.—**Revision**

ibEwing, P. U. S. Nat. Mus. 58: 19, 1926, 30 p.

- Pediculus ventricosus*, *see* *Pediculoides ventricosus*
- Pediculus vestimenti*, *see* *Pediculus humanus corporis*
- Pedilus parvicollis*—not *Dendroides*  
Fall, Bklyn. Ent. Soc. B. 24, 13, 1929.
- Pedinaspis* n. gen., 100-102, *albocaudata* 101, *brimleyi* 101-102, *bucephala* 101  
nMalloch. Proc. Ent. Soc. Wash. 30, 1928.
- Pegomyia brassicae*, *see* *Phorbia brassicae*
- Pegomyia affinis*  
Curran, Can. Ent. 58, 256, 1926.
- Pegomyia ceparum*, *see* *Hylemyia antiqua*
- Pegomyia fusciceps*, *see* *Hylemyia cili-crura*
- Pegomyia hyoscyami* (Spinach leaf miner)\*  
iCaesar, Ont. Dept. Agr. B. 325, 22-24, 1927.  
Glasgow, N. Y. Geneva C. 100, 5-6, 1927.  
Gui, Ohio B. 431, 76, 1929.  
iHawley, Utah C. 54, 24-26, 1925.  
Herrick, Rur. N. Y. 84, 974, 1925.  
MacLeod, Penn. Ext. C. 122, 21-22, 1929.  
Williams, Ohio B. 417, 49, 1928.  
— Nat. Canners Assoc. B. 103-A, 35, 1928.
- Pegomyia rubivora* (Raspberry cane maggot)\*  
Garlick, Canada Dept. Agr. B. 114, 21, 1929.
- Pegomyia* spp.  
iNeedham, Frost & Tothill, Leaf-mining insects 1928, 272-278.
- Pegomyia vicina* (Beet Leaf miner)  
Gibson & Twinn, Can. Dept. Agr. B. 122, 62, 1929.  
MacLeod, Penn. St. Ext. C. 122, 21-22, 1929.  
Petch & Armstrong, Quebec Soc. Protec. Plants, R. 17, 72, 1925.  
Watson, Fla. Dept. Agr. Quar. B. 39: 3; 64-65, 1929.
- Pelastoneurus acuticauda*  
niVan. Duzee, PUSNM 74; 10, 59-60, 1928.
- Pelastoneurus furcatus*  
nVan Duzee, Psyche 36, 38-39, 1929.
- Pelastoneurus fuscipennis* 60-61, *maculitibia* 58-59, *pectinatus* 61-62.  
niVan Duzee, PUSNM 74; 10, 1928.
- Pelastoneurus quadricincta*  
nVan Duzee, Pan-Pac. Ent. 5, 89, 1928.
- Pelatachina orillia*, spp.  
nCurran, Can. Ent. 59, 23-24, 1927.
- Pelecinobaccha*—n. subgen.  
nShannon, PUSNM 70; 9, 10, 1927.
- Pelecinus*  
Brues, Psyche 35, 205-209, 1928.
- Pelecinus polyturator*  
Petch & Hammond, Ont. Ent. Soc. R. 55, 25, 1925; R. 56, 86, 1926.
- Pelecium sulcatum*  
bSalt, Psyche 35, 131-134, 1928.
- Peleteria alberta* 234, *aldrichi* 240, *anaxias* 245-246, *angulata* 236-237, *apicata* 244, *bequaerti* 250, *biangulata* 255-256, *blanda* 241, *bryanti* 250-251, *campestre* 247-249, *cinerascena* 244-245, *clara* 239-240, *confusa* 253-265, *conjuncta* 235-236, *convexa* 251-252, *cornigera* 232, *cornuta* 232-233, *cornuticauda* 234, *eronis* 238-239, *filipalpis* 257, *fuscisquama* 237, *inca* 247, *iterans* 238, *mexicana* 256, *neglecta* 243, *obsoleta* 251, *phairi* 233-234, *posticata* 241-242, *prompta* 238, *regalis* 235, *robusta* 245, *setosa* 252-253, spp. 225-257, *texensis* 246-247, *texicana* 256, *townsendi* 252, *trifasciata* 242, *valida* 255; niCurran, Roy. Soc. Canada Trans. ser. 3, sec. 5, v. 19, '25.
- Pellex purimana* n. gen. & sp.  
nCresson, Trans. Amer. Ent. Soc. 51, 253, 1925.
- Pelidnota punctata*  
iHayes, Kans. Tech. B. 16, 89-97, 1925.
- Pelignus*  
nCresson, Trans. Amer. Ent. Soc. 52, 254, 1926.
- Pelocoris carolinensis*  
ieHungerford, Bklyn. Ent. Soc. B. 22, 77-82, 1927.
- Pelorempis americana*  
Essig, Insects of Western No. Amer. 1926, 540.
- Pemphiginae*  
nbiMaxson & Hottes, Ent. News 37, 129-133, 1926.
- Pemphiglachnus*  
nKnowlton, Ann. Ent. Soc. Amer. 21, 264, 1928.
- Pemphiglachnus kaibabensis*  
niKnowlton, Ann. Ent. Soc. Amer. 21, 264-265, 1928.

**Pemphigus gen.**

Hottes, Proc. Biol. Soc. Wash. 40, 47-48, 1927.

**Pemphigus acerifolii**, *see* **Pemphigus tessellatus****Pemphigus betae** (Beet root aphid)

iHawley, Utah, C. 54, 34-39, 1925.

iMaxon & Knowlton, Ann. Ent. Soc. Amer. 22, 267-270, 1929.

Savage and Powers, Mont. B. 215, 29-30, 1928.

**Pemphigus corrugatus**

Quaintance & Baker, U. S. F. B. 1128, rev. Apr. 1926, 12-13.

**Pemphigus erigeronensis** (Aster root aphid)

Cutright, Ohio B. 387, 207-216, 1925.

Lieber, Ind. Dept. Conserv. R. 8, 54, 1926.

Williams, Ohio B. 382, 35, 1924.

**Pemphigus fraxinifolii** (Ash aphid)

Maxson & Knowlton, Ann. Ent. Soc. Amer. 22, 270-271, 1929.

**Pemphigus imbricator** (Beech tree blight)

Peirson, Me. For. Serv. B. 5, 37, 1927.

**Pemphigus lactucae**

iCutright, Ohio B. 387, 200-206, 1925.

**Pemphigus neonatorum**

Faulkrode, Atlantic Med. J. 29, 454-457, 1926.

Volckers, J. Am. Med. Assoc. 87, 1781, 1926.

**Pemphigus populi-caulis**

Maxson & Knowlton, Ann. Ent. Soc. Amer. 22, 254-261, 1929.

**Pemphigus populi-globuli**

Maxson & Knowlton, Ann. Ent. Soc. Amer. 22, 261-263, 1929.

**Pemphigus populi-ramulorum**

Maxson & Knowlton, Ann. Ent. Soc. Amer. 22, 266-267, 1929.

**Pemphigus populi-transversus** (Poplar leaf stem gall)

Cutright, Ohio B. 387, 206, 1925.

ide Gryse, Can. Dept. Agr. Ent. Br.

Pam. 47 n. s., rev. ed. 7, 1925.

Hull, J. Econ. Ent. 22, 774, 1929.

Maxson & Knowlton, Ann. Ent. Soc. Amer. 22, 263-264, 1929.

**Pemphigus populi-venae**

Maxson & Knowlton, Ann. Ent. Soc. Amer. 22, 264-266, 1929.

**Pemphigus sp.**—Mouth and pharynx

Fox, Laryngoscope 36, 676-692, 1926.

**Pemphigus spp.**

Cosens, Ont. Dept. Agr. R. f. 1925, 9, 1926.

**Pemphigus tessellatus** (Woolly alder aphid)\*

Cutright, Ohio B. 387, 206, 1925.

Middleton, Garden Club B. 6 (ser. 4) 16-17, 1929.

Peirson, Me. For. Serv. B. 5, 22-23, 1927.

**Pemphigus vagabundus**

Cooley, Mont. B. 170, 24, 1925.

**Pemphigus vegetans**

Washburn, Southwest Med. 9, 350-352, 1925.

**Pemphredon concolor**—Parasites

iReinhard, Nat. Mag. 13, 154-157, 1929.

**Pendarus**—n. subgen.

nBall, Can. Ent. 59, 262-265, 1927.

**Pennisetia marginata**, *see* **Bembecia marginata****Pennsylvania soldier beetle**, *see* **Chauliognathus pennsylvanicus**.**Pentacentrus unifenestratus**

nCaudell, PUSNM 71; 3, 39-40, 1928.

**Pentagenia robusta**, **vittigera**

nMcDunnough, Can. Ent. 58, 185, 1926.

**Pentagonica flavipes**

Blatchley, Can. Ent. 57, 161-162, 1925.

**Pentarthritis dissimilis**

nBlatchley, J. N. Y. Ent. Soc. 33, 109, 1925.

**Pentarthrum minutum**

Gowley, Jamaica Sci. & Agr. Dept. Ann. R. f. 1925, 10, 1926.

**Pentatoma punctipes**

Watson, Fla. Dept. Agr. Quar. B. 39; 3; 108, 1929.

**Pentatomidae**

ibBaker, Quebec Soc. Protec. Pl. R. 19, 24-34, 35-42, 1927.

iNature Mag. 9, 287, 1927.

**Pentatomoidea**—Canada

Stoner, Can. Ent. 58, 28-30, 1926.

**Pepper maggot**

Burdette, N. J. R. 50, 184-187, 1929.

**\*Pepper weevil**, *see* **Anthonomus eugenii****Pepsis bequaerti**

niSalman, Pan-Pac. Ent. 5, 23-25, 1928.

**Pepsis domingensis**

nBanks, Harvard Biol. Lab.—Studies on Cuban Insects 1, 4, 1928.

**Pepsis elegans**

ib1Salman, Trans. Amer. Ent. Soc. 55, 119-153, 1929.

**Pepsis flies and tarantulas**

Petrunkévitch, J. Expt. Zool. 45, 374, 1926.

**Pepsis marginata**

Fernald, Applied Ent. ed. 2, 358, 1926.  
iPetrunkévitch, J. Exper. Zool. 45, 367-393, 1926.

**Pepsis sayi**

nBanks, Can. Ent. 58, 202-203, 1926.

**Percosia obesa**

Criddle, Ont. Ent. Soc. R. 55, 14, 1925.

**Perdita clemellae**

nCockerell, Proc. Cal. Acad. Sci. ser. 4, 14; 11, 193-194, 1925.

**Perdita consobrina 3, floridensis 7-10**

nTimberlake, Amer. Mus. Novit. 321, 1928.

**Perdita fraterna 123-125, gerhardi 119-121**

Timberlake, Trans. Amer. Ent. Soc. 55, 1929.

**Perdita keiferi**

nTimberlake, Pan-Pac. Ent. 5, 28-31, 1928.

**Perdita lasiogastra, maculipennis**

nTimberlake, Trans. Amer. Ent. Soc. 55, 115-118, 121-122, 1929.

**Perdita nigricollis**

nTimberlake, Pan-Pac. Ent. 6, 54-56, 1929.

**Perdita obliqua**

nTimberlake, Pan. Pac. Ent. 5, 26-28, 1928.

**Perdita opacifrons**

nTimberlake, Trans. Amer. Ent. Soc. 55, 113-115, 1929.

**Perdita opuntiae**

Custer, Psyche, 36, 293-295, 1929.

**Perdita oregonensis**

nTimberlake, Pan-Pac. Ent. 6, 52-54, 1929.

**Perdita pyrifera**

nCockerell, Proc. Cal. Acad. Sci. ser. 4, 14; 11, 192-193, 1925.

**Perdita salicis III, spp., III-125**

Timberlake, Trans. Amer. Ent. Soc. 55, 1929.

**Perdita timberlakei**

nCockerell, Proc. Cal. Acad. Sci. ser. 4, 14; 11, 194, 1925.

**Perdita wheeleri**

nTimberlake, Amer. Mus. Novit. 321, 5-7, 1928.

**Perdita zebrata**

Custer, Can. Ent. 61, 49-51, 1929.

**Perdita zonalis**

Timberlake, Pan-Pac. Ent., 6, 49-52, 1929.

**Peregrinus maidis (Corn lantern fly)**

Myers, Harvard Inst. Trop. Biol. & Med. Cont. 3, 88-91, 1926.

Osborn, J. Ec. Ent. 19, 105, 1926.

Osborn, Ref. Bk. Sugar Indus. of World 4, 48, 1926.

Watson, Fla. Dept. Agr. Quar. B. 39; 3; 88, 1929.

**Peretrus pluralis**

Reinhard, Nat. Mag. 13, 157, 1929.

**Perezia pyrausta**

iPaillot, Internat. Corn Borer Invest. Sci. R. 1, 94, 1928.

**Perforadix sacchari**

Sein, Porto Rico Insul. R. f. 1927-8, 89, 1929.

**Pergamasus crassipes**

Miller, Ohio B. 386, 136, 1925.

**Pergandeidia vornii**

niTissot, Fla. Ent. 13, 1-4, 1929.

**Periaman rectidorsum**

niFunkhouser, Brklyn Ent. Soc. B. 22, 107-108, 1927.

**Pericoma aldrichana 107-108, apicalis 149, fluviatilis 106, littoralis 107-108**

nDyar, Ins. Insc. Mens. 14, 1926.

**Pericoma satellitia**

inDyar, Proc. Ent. Soc. Wash. 29, 163, 1927.

**Pericoma willistoni, n. n.**

Dyar, Ins. Insc. Mens. 14, 149, 1926.

**Pericopis schadei**

nSchaus, Proc. Ent. Soc. Wash. 29, 103-104, 1927.

**Peridroma margaritosa, "Poko" (Variegated cutworm)**

Drake and Harris, Iowa C. 101, 1927, 8 p.  
iWalton, U. S. Golf Assoc. Green Sec. B. 9, 156-157, 1929.

**Peridroma saucia, see Lycophotia margaritosa**

**Perigaster alternans**

nBlatchley, J. N.Y. Ent. Soc. 36, 256-257, 1928.

**Perigea subluxa, subluxuriosa**

nDyar, Ins. Insc. Mens. 14, 145-146, 1926.

**Perigramma guatemalensis**

nSchaus, Proc. Ent. Soc. Wash. 29, 110-111, 1927.

**Perilampoides tennysoni**

Girault, Ins. Insc. Mens. 13, 95, 1925.



*Perillus bioculatus*

biKnight, Minn. Ent. R. 19, 50-96, 1924.

*Perimegatomia giffardi*

Blaisdell, Pan-Pac. Ent. 3, 163-164, 1927.

*Perimegatomia perversa*

nFall, Pan-Pacific Ent. 2, 194-197, 1926.

\*Periodical cicada, *see* *Tibicina septendecim*

*Peripatus antiguensis*—Montserrat

Clark, Proc. Ent. Soc. Wash. 31, 139, 1929.

*Peripatus biolleyi* 165, *brasiliensis* 162, *edwardsii* 164, *geayi* 160-161, *isthmicola* 164-165, *juliformis* 161-162

Brues, Psyche 32, 1925.

*Periphyllus lyropictus* (Norway maple aphid)

Lieber, Ind. Dept. Conserv. R. 9, 45-46, 1927.

Peirson, Me. For. Serv. B. 5, 85-86, 1927.

Wallace, Ind. Dept. Conserv. Div. Ent. R. f. 1927, 25, 1928.

*Periphyllus negundinis* (Boxelder aphid)\*

de Gryse, Can. Dept. Agr. Ent. Br. Pam. 47, n. s. rev. ed. 17, 1925.

Knowlton, Pan-Pac. Ent. 6: 34, 1929.

Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 47, 1926.

*Periplaneta americana* (American cockroach)\*

bCampbell, Ann. Ent. Soc. Amer. 22, 401-425, 1929.

biCrampton, Psyche 32, 195-220, 1925.

Crampton, Psyche 34, 59-72, 1927.

Dowling, La. Quar. B. 18: 1, 12-14, 1927.

Felt, N. Y. St. Mus. B. 274, 47-48, 1928.

bGlaser, Psyche 34, 211, 1927.

iRiley, Nation's Health 8, 533, 1926.

ibSmith & Barret, J. Parasitol. 14, 272-273, 1928.

iCornell Rur. Sch. L. 18; 3, 16, 1925.

*Periplaneta orientalis*, *see* *Blatta orientalis* (Oriental cockroach)\**Periplaneta* sp.

Guyton, Pa. Dept. Agr. Gen. B. 432, 4, 1926.

*Peripsocus californicus*

Wachter, Pan-Pacific Ent. 2, 87-89, 1925.

*Perisierola emigrata*

bWillard, U.S.D.A. Tech. B. 19, 11-14, 1927.

*Perithous pleuralis*

Reinhard, Nat. Mag. 13, 157, 1929.

*Peritrechus* spp. key

Walley, Can. Ent. 61, 43, 1929.

*Perizoma osculata*

Barnes & Benjamin, Pan Pacific Ent. 4, 120, 1928.

*Perkinsiella saccharicida* (Sugarcane leafhopper)

bEarle, Facts About Sugar 22, 1018, 1927.

Pemberton, La. Plant & Sugar Mfg. Co. Ref. Bk. Sugar Ind. of the World 5: 5, 44, 1927.

*Pero patriciata*

nCassino & Swett, Lepidopterist 4, 41, 1925.

*Percara caterina*

nSchaus, P. U. S. N. M. 73; 19, 15-16, 1928.

*Perola actiosa* 91, *benedocta* 91, *degenerans* 92, *laopeps* 90-91, *paraguacula* 91, *regina* 91-92, *sibillanta* 92-93, spp.—key 85-90

Dyar, Ins. Insc. Mens. 14, 1926.

*Perola prosper*, *subpunctella*

nDyar, J. Wash. Acad. Sci. 17, 549, 1927.

*Peronea maximana*

Venables, Ent. Soc. B. C. Proc. 21, 26-27, 1924.

*Peronea minuta* (Yellow-headed fireworm)\*

Dean, Kan. Ent. Com. Bien. R. 10, 30, 1927.

*Peronea variana* (Hemlock budworm, Tip moth)

Caverhill, B. C. Dept. Lands. For. Br. R. f. 1929, B 15.

Swaine, J. Ec. Ent. 22, 1001, 1929.

\*Persimmon psyllid, *see* *Trioza diospyri**Persimmon* root borer, *see* *Sannina uroceriformis*

## Pest control

Bourne & Doran, Mass. Fruit Grow. Assoc. R. 35, 116-119, 1929.

Cooper, Flower Grow. 16; 376, 1929.

Darrow, Mass. Fruit Grow Assoc. R. 35, 159-168, 1929.

Groves, Florists, Exch. 69; 218, 1928.

Gunder, Ent. News 39, 318, 1928.

Hecke, Calif. Cult. 68, 647, 1927.

Milbrath & Lockwood, Cal. Cult. 73, 507, 514, 1929.

Morrill, Cal. Dept. Agr. Sp. Pub. 73, 70-82, 1927.

Newman, Calif. Cult. 68, 721, 1927.

Sondilands, Cal. Citrograph, 14; 206, 1929.

Thies, Mass. Fruit Grow. Assoc. R. 35, 116, 1929.

- Vickery and Browne, Handbk. Pest Control, 1929.  
 Wheeler, Calif. Cult. 69, 668-669, 1927.  
 Wilcomb, Cal. Cult. 73, 515, 1929.  
 Woglum, Cal. Cit. 14: 453-464, 1929.  
 Wolff, Calif. Cult. 69, 530, 1927.
- Pest control school**  
 Braunton, Cal. Cult. 71, 31, 1928.
- Pest list—Colo.**  
 List. Cal. Dept. Agr. Sp. Pub. 85, 111-113, 1928.
- Pest List—Idaho**  
 Dean, Cal. Dept. Agr. Sp. Pub. 85, 113-114, 1928.
- Peteina hyperdiscalis**  
 nAldrich, PUSNM 69, 22, 19-20, 1926.
- Peteina ontario**  
 nCurran, Can. Ent. 58, 87-88, 1926.
- Petrobia drummondi**  
 nEwing, Ent. News 37, 143, 1926.
- Petrova albicapitana**  
 iPettit, Mich. Ent. R. f. 1927, 12-14, 1927.  
 iPettit, Mich. St. Bd. Agr. R. 66, 348-350, 1928.
- Petrova comstockiana**  
 ide Gryse, Can. Dept. Agr. Ent. Br. Pam. 47 n.s. rev. ed. 24, 1925.
- Petrova insignis**  
 niHeinrich, Proc. Ent. Soc. Wash. 30, 63, 1928.
- Pexomyia genalis**  
 nAldrich, P.U.S.N.M. 74; 8, 5-6, 1928.
- Phaciocephalus cubanus** (Tawny leaf hopper)  
 niMyers, Harvard Inst. Trop. Biol. & Med. Cont. 3, 91-92, 103-104, 1926.
- Phaenocasiophora spp.—Key**  
 Heinrich, U.S.N.M.B. 132, 126, 1926.
- Phaedon americanus**  
 nSchaeffer, Bklyn. Ent. Soc. B. 24, 287, 1929.
- Phaedon carri** 46-47, dietrichi 46, huachucae 62, microreticulatus 46, niger 47, punctatus 46, purpurescens 61; nHatch, Pan-Pac. Ent. 5, 1928.
- Phaedon spp.**  
 Fall. Pan-Pac. Ent. 5, 145-152, 1929.
- Phaedon spp.—Nearctic & European**  
 Hatch, Pan. Pac. Ent. 5, 44-45, 1928.
- Phaedon uniformis**  
 Hatch, Pan-Pac. Ent. 5, 44-45, 1928.
- Phaedon vancouverensis, vandykei**  
 nHatch, Pan-Pac. Ent. 5, 61-62, 1928.
- Phaenodus africanus**  
 nBrues, Proc. Amer. Acad. Arts & Sci. 61, 248-250, 1926.
- Phaenopria occidentalis**  
 nFouts, Proc. Wash. Ent. Soc. 29, 168-169, 1927.
- Phaeogenes planifrons**  
 iJones, U.S.D.A. Tech. B. 98, 3, 1929.
- Phaiosterna aequalis**  
 nCresson, Trans. Amer. Ent. Soc. 55, 193-194, 1929.
- Phalacropera vancouverensis**  
 nAlexander, Can. Ent. 59, 189-190, 1927.
- Phalacropsylla cummingi—California**  
 niFox, Pan-Pacific Ent. 2, 182, 1926.
- Phalacrus politus** (Smut beetle)  
 Weese, Ill. Biol. Mon. 9; 4, 13, 1924.
- Phalaenidae**  
 Barnes & Benjamin, Pan-Pacific Ent 3, 64-74, 1926, 4, 1-3, 1927.  
 iCook, Ecology, 8, 158-173, 1927.  
 Walker, Ohio Biol. Surv. Bul. 19, 153-171, 1928.
- Phalangomyia**  
 Dyar, Amer. J. Hyg. 9, 509-511, 1929.
- Phalera bucephala**  
 Heighton, Portage Co. Hort. Soc. Proc. f. 1927, 42-44.
- Phalera ordgara, surigaona**  
 nSchaus, P.U.S.N.M. 73; 19, 82-83, 1928.
- Phalonia cephalanthana**  
 Bottimer, J. Agr. Res. 33, 819, 1926.
- Phanaeus carnifex**  
 Barber, J. Wash. Acad. Sci. 18, 383, 1928.
- Phaneroptera curvicauda**  
 iAllard, Smithsonian, R. f. 1928, 587, 1929.
- Phaneroptera furcata**  
 Allard, Smithsonian, R. f. 1928, 577, 1929.
- Phaneroptera paronae**  
 Hebard, Trans. Amer. Ent. Soc. 51, 295-296, 1925.
- Phanerotoma major, ornatula**  
 niBrues, Proc. Amer. Acad. Arts & Sci. 61, 266-268, 1926.
- Phanerotoma rhyacioniae**  
 nCushman, J. Agr. Res. 34, 740, 1927.

**Phanerotoma uniformis**

nBrues, Proc. Amer. Acad. Arts & Sci.  
61, 268-269, 1926.

**Phanurus emersoni**

iParman, U.S.D.A. C. 18, 1928, 6 p.

**Pharaoh's ant, see Monomorium pharaonis****Pharaxonotha kirschi**

iBack & Cotton, U.S.F.B. 1260: rev.  
Dec. 1925, 32.

**Pharaxonotha zamiae**

nBlake, Psyche 35, 111-113, 1928.

**Phasia brevineura, cara, furva**

nWest, J.N.Y. Ent. Soc. 33, 122-124, 1925.

**Phasiane nigroalbana**

nCassino, Lepidopterist 4, 94-95, 1928

**Phasiane setonana**

nMcDunnough, Can. Ent. 59, 245-246, '27.

**Pheidole absurda** 199, **commutata** 165

Wheeler, J. Expt. Zool. 50, 1928.

**Pheidole dentigula**

nSmith, Ent. News 38, 310-313, 1927.

**Pheidole gouldi**

iWheeler, J. Expt. Zool. 50, 190, 1928.

**Pheidole hyatti—in refrigerators**

Hamlin & Hamlin, J. Ec. Ent. 21, 431,  
1928.

**Pheidole indica—Instinct**

Hingston, Instinct & Intelligence, 1926,  
9-12, 122-123.

**Pheidole javana, lighti**

Wheeler, Amer. Mus. Nov. 361, 2-4, 1929.

**Pheidole megacephala**

Illingworth, Hawaiian Pineapple Can-  
ners Exp. Sta. B. 7, 4, 1926.

Williams, J. Pan-Pacific Res. Inst. 4:  
3, 3, 1929.

**Pheidole mendicula**

nibWheeler, Biol. B. 49, 172-175, 1925.

**Pheidole pallidula** 199-205, **susannae** 193

iWheeler, J. Expt. Zool. 50, 1928.

**Phelates occidentalis**

Marlatt, U.S.D.A. Ent. R. f. 1929, 19.  
Spuler, J. Ec. Ent. 18, 703-707, 1925.

**Phenacoccus acericola**

Swaine & Hutchings, Can. Dept. Agr.  
Ent. B. 28, 50, 1926.

iTrimble, Pa. Dept. Agr. B. 8; 2, 5, 1925.

Trimble, Pa. Dept. Agr. Gen. B. 480, 5,  
1929.

**Phenacoccus colemani**

iFerris, Cal. Agr. B. 16, 338, 1927.

**Phenacoccus gossypii (Mexican mealy bug)**

Ferris, Cal. Agr. B. 16, 338, 1927.

Lieber, Ind. Dept. Conserv. R. 10, 67-  
68, 1928.

iMyers, Calif. Dept. Agr. Mo. B. 17,  
355-358, 1928.

**Phenacoccus hirsutus (Hibiscus mealy-bug)**

Ferris, Cal. Agr. B. 16, 340, 1927.

**Phenacoccus serratus**

niFerris, Can. Ent. 57, 231-232, 1925.

**Phengodes spp.—Luminescence**

Derickson, Nat. Mag. 14, 233-235, 1929.

**Philaenus canadensis, spp.—Key**

nWalley, Can. Ent. 61, 156, 1929.

**Phlagra (?) kudiana**

niCockerell, P.U.S.N.M. 68; 5, 8, 1925.

**Philandesia foxi**

nEwing, J. Wash. Acad. Sci. 17, 87, 1927

**Phileurus valgus**

Rohwer, Ent. News 38, 301, 1927.

**Philhydrus elongatulus**

Blatchley, Can. Ent. 57, 163, 1925.

Fall, Brklyn. Ent. Soc. B. 21, 125, 1926.

**Philippimyia, new genus**

Shannon, P.U.S.N.M. 69; 9, 47, 1926.

**Philonthus fraternus, septentrionis**

nFall, Pan-Pac. Ent. 2, 149-152, 1926.

**Phloptoridae—Key**

Ewing, J. Wash. Acad. Sci. 17, 95-96,  
1927.

**Phlopterus cristata**

niMalcomson, Ann. Ent. Soc. Amer. 22,  
729-730, 1929.

**Phlopterus dentatus**

Essig, Insects of Western No. Amer.  
1926, 133, 135.

iSwenk & Muschel, Neb. C. 37, 8, 1928.

**Phlopterus ocellatus**

Spencer, Can. Ent. 60, 258, 1928.

**Phlopterus—Infesting owls**

bEwing, Proc. Ent. Soc. Wash. 28, 145-  
150, 1926.

**Philorus sp.—Table**

Walley, Can. Ent. 59, 113-115, 1927.

**Philosamia cynthia (Ailanthus moth)**

Clark, Sci. Mo. 23, 393, 1926.

- Dederer, J. Morphol. & Physiol. 45: 599-611, 1928.  
 Farmiloe, Brklyn. Ent. Soc. B. 20, 120-123, 1925.  
 Mather, Nat. Mag. 6, 130, 1925.
- Philotes glaucon**  
 niGunder, Can. Ent. 59, 282-283, 1927.
- Phlaeothrips chapmani**  
 niHood, Ent. Americana 7, 227-229, 1927.
- Phlebotrophia mathesoni (?)**  
 Pierson, Jour. For. 26, 1056-1058, 1929.  
 nRohwer, Wash. Ent. Soc. Proc. 31, 62-63, 1929.  
 Salman, J. Ec. Ent. 21, 432, 1928.
- Phlebotomus argentipes**  
 —Amer. J. Pub. Health 17, 156, 1927.
- Phlebotomus (Brumptomyia) noguchii**  
 nDyar, Amer. J. Hyg. 10: 1, 114, 1929.  
 ibShannon, Amer. J. Hyg. 10: 78-111, 1929.
- Phlebotomus panamensis**  
 niShannon, J. Wash. Acad. Sci. 16, 192-193, 1926.
- Phlebotomus papatasii**  
 iChandler, Animal Parasites, ed. 3, 184-185, 467, 1925.  
 bMcKinley, P. R. Rev. Pub. Health 4: 11, 574-576, 1929.
- Phlebotomus peruensis** 113, quinquefer 114, shannoni 121, rondani, spp. 112-124; Dyar, Am. J. Hyg. 10, 1929.
- Phlebotomus spp.**  
 Hertig & Hertig, Science 65, 328-329, 1927.  
 iShannon, J. Wash. Acad. Sci. 16, 190-193, 1926.
- Phlebotomus verrucarum**  
 ibNoguchi et al, J. Expt. Med. 49, 993-1008, 1929.  
 ibShannon, Amer. J. Hyg. 10: 1; 78-111, 1929.
- Phlebotomus sp. and disease**  
 Bequaert, Harvard Inst. Trop. Biol. & Med. Cont. 4, 193-195, 1926.  
 Chandler, Animal Parasites, ed. 3, 470-473, 1925.  
 Noguchi, Shannon, et al, Science 68, 493-495, 1928.  
 Young & Hertig, Soc. Exp. Biol. & Med. Proc. 23, 611-615, 1926.
- Phlegethontius carolina—Amyl salicylate**  
 Morgan & Lyon, J. Ec. Ent. 21, 189-191, 1928.
- Phlegethontius sexta**, see *Protoparce sexta*
- Phlepsius bipartitus**  
 niDeLong, Tr. Amer. Ent. Soc. 52, 90-91, 1926.
- Phlepsius irroratus**  
 Lawson, Ann. Ent. Soc. Amer. 19, 74, 1926.
- Phlepsius operculatus**  
 nBall, Can. Ent. 59, 265, 1927.
- Phlepsius spp.—Food plants and habitat**  
 DeLong, Ohio J. Sci. 26, 69-72, 1926.
- Phloeiothrips**, n. gen., tumiceps  
 Hood, Brklyn. Ent. Soc. B. 20, 127-129, 1925.
- Phloeophagus californicus, canadensis**  
 nVan Dyke, Pan-Pac. Ent. 4, 16-17, 1927.
- Phloeosinus cristatus (Cyprus twig borer)**  
 Jacobsen, Calif. Dept. Agr. Mo. B. 16: 655, 1927.
- Phloeosinus cupressi**  
 Van Dyke, Pan-Pac. Ent. 2, 46, 1925.
- Phloeothrips orientalis**  
 nMoulton, Brklyn. Ent. Soc. B. 22, 195-196, 1927.
- Phloetribus**, see *Phthorophloeus*
- Phlyctaenia ferrugalis (Greenhouse leaf tyer)\***  
 Ball, Fla. Grower 35: 8, 4, 1927.  
 Britton, Conn. B. 294, 298, 1928.  
 Campbell, J. Ec. Ent. 18, 133-136, 1925.  
 bCampbell, Pan-Pac. Ent. 4: 2; 77-84, 1927.  
 Cooper, Fla. Dept. Agr. Quar. B. 36; 2, 1926.  
 iDrake & Decker, Iowa C. 103, 15, 1927.  
 iEllis, J. Agr. Res. 30, 785-786, 1925.  
 Lieber, Ind. Dept. Conserv. R. 8, 49-50, 1926; R. 9, 54, 1927; R. 10, 66, 1928.  
 Newell, Fla. St. Pl. Bd. Quar. B. 11, 47, 1927.  
 iSeverin, So. Dak. Ent. R. 15, 20-25, 1924.  
 Spittall, Proc. Acad. Ent. Soc. 10, 66-67, 1925.  
 Watson, Fla. R. f. 1925, 38R-39R.

- Phlyctaenia ferrugalis** *Cont'd*  
 Watson, Fla. Dept. Agr. Quar. B. 39: 3; 82, 1929.  
 Williams, Ohio B. 417, 50, 1928.
- Phlyctaenia nordeggensis**  
 iMcDunnough, Can. Ent. 61, 266-267, '29.
- Phlyctaenia rubigalis**, *see* **Phlytaenia ferrugalis**
- Phlyctaenia sheppardi**  
 niMcDunnough, Can. Ent. 61, 267, 1929.
- Phlyctaenia** sp.—Parasites  
 bBalduf, Ohio J. Sci. 29, 218-241, 1929.
- Phlyctaenia tertialis**—Parasites  
 Balduf, Ohio J. Sci. 29, 230, 1929.
- Phobema atrox**  
 nAldrich, P.U.S.N.M. 66: 18, 7-8, 1929.
- Phoberopus saussure**  
 Caudell, Proc. Ent. Soc. Wash. 30, 103-105, 1928.
- Phobeticomyia preapicalis**  
 nMalloch, P.U.S.N.M. 74: 6, 23, 1929.
- Phobetron pitheciun** (Hag moth)\*  
 Watson, Fla. B. 183, 405-406, 1926.
- Phobolosa duomaculata**  
 nBarnes & Benjamin, Proc. Ent. Soc. Wash. 27, 126, 1925.
- Phocion**, n. gen., congener, *ipswichi*  
 nGirault, Ins. Insc. Mens. 13, 91-92, 1925.
- Phoenicococcus marlatti** (Red date scale)\*  
 iSkinner, Ariz. Com. Agr. & Hort. R. 15-16, 50-58, 1925.
- Pholeomyia expansa**  
 nAldrich, P.U.S.N.M. 66: 18, 1-2, 1925.
- Pholisora alpeus**  
 Comstock, S. Cal. Acad. Sci. B. 28, 25, 1929.
- Pholus achemon** (*Achemon sphinx*)\*  
 Bonnet, Calif. Grape Grow. 9; 2, 6, 1928.  
 Branch, Kans. Acad. Sci. Trans. 31, 100, 1928.  
 Cooley, Mont. B. 170, 28, 1925.
- Phoraspis blanchardi**  
 nHebard, Amer. Ent. Soc. Trans. 55, 372-373, 1929.
- Phorbia brassicae** (Cabbage maggot)\*  
 Baker, Gard. & Home Bldg. 43, 170, 1926.  
 Beaulne, Quebec Soc. Protec. Pl. R. 20; 84, 1928.
- Brittain, Proc. Acad. Ent. Soc. 10, 39, 1925.
- ibBrittain, Nova Scotia Dept. Nat. Res. B. 11, 48, 1927; B. 12, 78-80, 1927.
- Britton, Conn. B. 305, 678, 1929.
- iCaesar, Ont. Dept. Agr. B. 325, 28-30, 1927.
- iClark, Wis. B. 396, 94-95, 1927.
- bClayton, N. Y. Gen. B. 537, 1926.
- Compton, Canning Trade, 48; 50, 10, 1925.
- Compton, Ill. C. 297, 5-6, 1925.
- Compton, Ill. Hort. Soc. Tr. 59, 308-309, 1926; 60, 412, 1927.
- Cooley, Mont. B. 170, 26, 1925.
- iFriend, Conn. B. 265, 314-318, 1925.
- iGibson & Twinn, Can. Dept. Agr. B. 112, 59-60, 1929.
- Gillette, Colo. Ent. C. 47, 14, 1925.
- iGlasgow, N. Y. Geneva C. 76, 1924, 4 p.
- biGlasgow, N. Y. Gen. B. 512, 5-112, '25.  
 Glasgow, The Canner, 62; 16, 46, 1926.  
 Glasgow, The Canner, 68; 21, 40, 42, '29.
- iGui, Ohio Bi-Mo. B. 12, 92-99, 1927.
- Gui, Ohio B. 431, 76-77, 1929.
- Headlee, N.J. Hort. Soc. Proc. 1926, 31.
- Herrick, Rur. N. Y. 84, 1400, 1925.
- Horsfall, Penn. St. Hort. Assoc. Proc. 65, 143-144, 1924.
- Horsfall, Penn. St. B. 196, 32, 1925.
- Jones & Ernst, Cal. Ext. C. 11, 34, 1927.
- iLowry & Watson, N. H. Ext. B. 156, 1929, 2 p.
- MacLeod, Penn. St. Col. Ext. C. 122, 22-23, 1929.
- McMindes, Hoard's Dairym. 71, 179, 1926.
- Morrison, N. Y. Geneva R. 47: 50; 1928.
- Mote, Oreg. C. 65, 23-24, 69, 1926.
- P. W. Market Growers J., 43, 574, 1928.
- Perkins, Rur. N. Y. 85, 520, 1926.
- Petch & Armstrong, Quebec Soc. Protec. Plants R. 17, 72, 1925.
- iPettit, Mich. Ent. R. f. 1926, 12-13.
- Pettit, Mich. Sp. B. 183, 15-16, 1929.
- iSkinner, Market Growers J. 38, 398, 1926.
- Spittall, Proc. Acad. Ent. Soc. 10, 63, 1925.
- Thatcher, N. Y. Gen. R. 45, 39, 1926.

- iW. E. W., J. Agr. & Hort. 31, 179, 1928.  
**Phorbia brassicae**—Attacking carnations  
 Spencer, Proc. Ent. Soc. B. C. 25; 21-23, 1928.  
**Phorbia ceparum**, *see* *Hylemyia antiqua*  
**Phorbia cepetorum**, *see* *Hylemyia antiqua*  
**Phorbia chryssorrhoea** on bluebird  
 Lloyd, Canad. Field Nat. 41:5, 111, 1927.  
**Phorbia fusciceps**, *see* *Hylemyia cilicrura*  
**Phorbia rubivora**, *see* *Pegomyia rubivora*  
**Phoresy in insects**  
 Howard, Ent. News 38, 145-147, 1927.  
**Phorichaeta cinerosa**  
 Snow, J. Ec. Ent. 18, 609, 1925.  
**Phormia regina** (Black blowfly)  
 Ashburn, Nat. Wool. Grow. 18; 3, 33, 1928.  
 Bailey, Animal Life of Carlsbad Cavern, 1928, 179.  
 Beyer, La. St. Bd. Health Quart. B. 16: 1, 113, 1925.  
 iFelt, N. Y. St. Mus. B. 274, 19, 1928.  
 Minnich, Biol. B. 51: 3, 166-178, 1926.  
 iStewart, J. Am. Med. Assoc. 92, 798-799, 1929.  
 iTao, Amer. J. Hyg. 7, 752, 1927.  
**Phormia** spp.—in birds' nests  
 bDobrosky, Biol. Bul. 48, 274-281, 1925.  
**Phormia terraenovae**  
 iCarr, U. S. Naval Med. B. 25, 530, '27.  
**Phormophora luteostriga**  
 nGoding, Brklyn. Ent. Soc. B. 23, 139, '28.  
**Phormophora spreta**  
 nGoding, J. N. Y. Ent. Soc. 35, 170, 1927.  
**Phorocera agilis**  
 Burgess & Crossman, USDA Tech B. 86, 104-111, 1929.  
 ——— J. Ec. Ent. 22, 1003, 1929.  
**Phorocera claripennis**  
 iLuginbill, U.S.D.A. Tech. B. 34, 81, 1928.  
**Phorocera nestor** 12, *nigrocauda* 10-11, *ruficauda* 9-10, *sallax* 11, *senex* 10  
 nCurran, Amer. Mus. Nov. 258, 1927.  
**Phorodon humuli** (Hop aphid)\*  
 iBrittain, N. S. Dept. Nat. Resource B. 12, 58, 1927.  
 Lees & Briton-Jones, J. Pomol. 4, 196-199, 1925.  
 Quaintance & Baker, U.S.F.B. 1128, rev. Apr. 1926, 14-15.  
**Phorticus speciosus**  
 nHarris, Ent. Amer. 9, 11-12, 1928.  
**Photinus ablucens** 209, *floridanus* 210, *granulatus* 209, *ignitus* 208<sup>5</sup>  
 nFall, Brooklyn Ent. Soc. B. 22, 1927.  
**Photinus pyralis**—Light emitted  
 Coblenz & Hughes, Bur. Stand. Sci. Paper 538, 531-532, 1926.  
**Photinus stellaris**  
 Fall, Brooklyn Ent. Soc. B. 22, 210, 1927.  
**Photographic labels for insects**  
 Knight, Ent. News 39, 179-180, 1928.  
**Photography of insects**, *see* *Insect Photography*  
**Phototropism**—*Dixippus morosus*  
 Yagi, J. Gen. Physiol. 11, 297-300, 1928.  
**Photuris flavicollis**  
 nFall, Brooklyn Ent. Soc. B. 22, 210, 1927.  
**Photuris pennsylvanica** (Common firefly)  
 Creighton, Science 63, 600-601, 1926.  
**Phoxopteris comptana**, *see* *Ancyliis comptana*  
**Phragmatobia fuliginosa borealis**  
 iHardy, B. C. Provin. Mus. R. f. 1926, C20-21, 1927.  
**Phronia basalis** 51, *flabellata* 51-52, *fusciventris* 52-53; iVan Duzee, Cal. Acad. Sci. Proc. 17; 2, 1928.  
**Phrosinella** gen., 68-70, *aldrichi* 75-76, *fulvicornis* 70-74, *fumosa* 74-75, *pilosifrons* 76-78, spp.—Key 70  
 Allen, P.U.S.N.M. 68, Art. 9, 1926.  
**Phrudus dakota**, *exarealatus*  
 niCushman, P.U.S.N.M. 72, 13, 17-19, 1928.  
**Phryganea lavrushini**  
 niCockerell, PUSNM 68; 5, 2-3, 1925.  
**Phryganidia californica** (California oak worm)\*  
 ibEssig, Insects of Western No. Amer. 1926, 688-691.  
 Van Duzee, Pan-Pac. Ent. 2, 180, 1926.  
**Phthiracarus olivaceus**, *setosellus*  
 nJacot, Psyche 35, 214-215, 1928.  
**Phthirus**, *see* *Phthirus*  
**Phthirus gorillae**  
 nEwing, Proc. Ent. Soc. Wash. 29, 120-121, 1927.

- Phthirus pubis (Crab louse)\***  
 iBrittain, N. S. Dept. Nat. Resource B. 12, 108-109, 1927.  
 Felt, N. Y. St. Mus. B. 274, 47, 1928.  
 Fernald, Applied Ent. ed. 2, 167, 1926.
- Phthorimaea glochinella (Eggplant leaf miner)**  
 Jacobsen, Calif. Dept. Agr. Mo. B. 15: 129-130, 1926.  
 Mickel, J. Ec. Ent. 22, 602-603, 1929.  
 Morrill, J. Ec. Ent. 18, 712, 1925.  
 Morrill, Cal. Dept. Agr. Sp. Pub. 73, 72, 1927.
- Phthorimaea operculella (Potato tuber worm)\***  
 Cory, Md. Ext. C. 57, 1925, 3 p.  
 Cory, Peninsula Hort. Soc. Tr. 39, 51-56, 1925; Tr. f. 1926, 51-56, 1926.  
 Cory & Sanders, J. Ec. Ent. 19, 235-239, 1926.
- ibEssig, Insects of Western No. Amer.**  
 1926, 716-717.
- Mackie, Cal. Dept. Agr. Mo. B. 17;**  
 679, 1928.
- Moore & Pepper, S. C. Ext. C. 84, 11-**  
 12, 1926.
- iNeedham, Frost & Tothill, Leaf-min-**  
**ing insects, 1928, 158-160.**
- Park, Oreg. St. Hort. Soc. Bien. R. 19,**  
**64-65, 1927.**
- IPeltier, Md. B. 298, 189-192, 1928.**
- ibPoos & Peters, Va. Truck Expt. Sta.**  
**B. 61, 598-630, 1927.**
- Schoene, Va. St. Crop Pest. Com. Quar.**  
**B. 7: 4, 9-11, 1926.**
- iSpencer & Strong, Va. B. 53, 419-463,**  
**1925.**
- iUnderhill, Va. Poly. B. 251, 1926, 21 p.**  
**Wilson, West. Flor. 12: 28, 7, 1929.**
- Phthorimaea polemoniella, sacculicola**  
**nBraun, Tr. Amer. Ent. Soc. 51, 13-14,**  
**1925.**
- Phthorophloeus liminaris (Peach bark**  
**beetle)\***  
 Hoerner, Md. B. 310, 462, 1929.
- Phthorophloeus oleae**  
 Hughes, Cal. Cult. 65, 219, 1925.
- Phumonesia villeneuvei**  
 nCurran, Amer. Mus. Nov. 248, 4-5, 1927.
- Phyciodes nycteis**  
 Rummel, Brklyn. Ent. Soc. B. 21, 203, 1926.
- Phyciodes phaon**  
 iComstock, S. Cal. Acad. Sci. B. 28, 22-23, 1929.
- Phylhydrus blatchleyi**  
 Blatchley, Can. Ent. 57, 163, 1925.
- Phyllaphis fagi (Woolly beech aphid)**  
 Britton & Zappe, Conn. B. 292, 151, 1927.  
 Peirson, Me. For. Serv. B. 5, 37, 1927.
- Phyllobius oblongus**  
 Felt, N. Y. St. Mus. B. 274, 158-159, '28.
- Phyllobrotica—Larva**  
 iBoving, Proc. Ent. Soc. Wash. 20, 193-205, 1927.
- Phyllocnistis finitima**  
 nBraun, Tr. Amer. Ent. Soc. 53, 194-195, 1927.
- Phyllocnistis saligna**  
 Clausen, USDA Tech. B. 15, 9, 1927.
- Phyllocnistis—sp.**  
 iNeedham, Frost & Tothill, Leaf-min-  
 ing insects, 104-106, 1928.
- Phyllocoptes aceris**  
 Miller, Ohio B. 386, 163, 1925.
- Phyllocoptes bruesii**  
 Johnson, Bost. Soc. Nat. Hist. Proc. 38, 140, 1926.
- Phyllocoptes laevigatae**  
 nibHassan, Cal. Univ. Pub. Ent. 4, 379-380, 1928.
- Phyllocoptes magnirostris**  
 Miller, Ohio B. 386, 163, 1925.
- Phyllocoptes mastigophorus**  
 Miller, Ohio B. 386, 163-164, 1925.
- Phyllocoptes oleivorus, see Eriophyes**  
**oleivorus**
- Phyllocoptes quadripes (Maple bladder**  
**gall)**  
 Herrick, J. Ec. Ent. 18, 632, 1925.  
 iPettit, Mich. Ent. R. f. 1926, 14.  
 iPettit, Mich. St. Bd. Agr. R. 65, 1926,  
 274-275.  
 Swaine & Hutchings, Can. Dept. Agr.  
 Ent. B. 28, 52-53, 1926.
- Phyllocoptes toxicophagus (Spider mite**  
**gall)**  
 Miller, Ohio B. 386, 164, 1925.

- Phyllopecta americana*  
nSchaeffer, Can. Ent. 60, 46-47, 1928.
- Phyllodictus* n. gen. 18, *flabellatus* 19-20, nitins 20, spp.—Key 19, *tessellatus* 19; n Ball, Fla. Ent. 10, 1926.
- Phyllocladus* gen., *nervatus*  
Ball, Fla. Ent. 10, 17-18, 1926.
- Phyllogryllus hirsutus*  
niHebard, Tr. Amer. Ent. Soc. 54, 265-267, 1928.
- Phyllomya fuscicosta*  
nCurran, Brooklyn Ent. Soc. B. 22, 147-148, 1927.
- Phyllopecta*, gen., *diospyri*, *tripunctata*  
Ferris, Can. Ent. 58, 16-18, 1926.
- Phyllophaga aemula*  
iLangston, Miss. Tech. B. 15, 62-63, 1927.
- Phyllophaga affabilis*  
iHayes, Kans. Tech. B. 16, 63-66, 1925.
- Phyllophaga analis*  
Stahl & Scaramuzza, Trop. Pl. Res. Foundation B. 10, 16, 1929.
- Phyllophaga antennata*  
iLangston, Miss. Tech. B. 15, 71-72, 1927.
- Phyllophaga anxia*  
iLangston, Miss. Tech. B. 15, 43-44, 1927.  
iLuginbill, Ann. Ent. Soc. Amer. 21, 71-72, 1928.  
Petch, Ont. Ent. Soc. R. 59, 18, 1929.  
Hammond, Quebec Soc. Protec. Plants R. 21, 37-38, 1929.
- Phyllophaga anxia*—Parasites  
Petch & Hammond, Ont. Ent. Soc. R. 55, 24-28, 1925; 56, 85-91, 1926.
- Phyllophaga arkansana*  
iLangston, Miss. Tech. B. 15, 17, 1927.
- Phyllophaga audanti*  
niWolcott, Proc. Ent. Soc. Wash. 30, 27-28, 1928.
- Phyllophaga austrocolia*  
niFall, Bklyn. Ent. Soc. B. 24, 110, 1929.
- Phyllophaga barda*  
iLangston, Miss. Tech. B. 15, 47-48, 1927.
- Phyllophaga bipartita*  
iHayes, Kans. Tech. B. 16, 28-35, 1925.  
iLangston, Miss. Tech. B. 15, 34-35, 1927.
- Phyllophaga calceata*  
iLangston, Miss. Tech. B. 15, 31-32, 1927.
- Phyllophaga clypeata*  
iLangston, Miss. Tech. B. 15, 69, 1927.
- iLuginbill, Ann. Ent. Soc. Amer. 21, 1928.
- Phyllophaga congrua*  
iLangston, Miss. Tech. B. 15, 27-28, 1927.
- Phyllophaga corrossa*  
iHayes, Kans. Tech. B. 16, 45-51, 1925.
- Phyllophaga crenaticollis*  
iStahl & Scaramuzza, Trop. Pl. Res. Foundation B. 10, 16, 1929.
- Phyllophaga crenulata*  
iHayes, Kans. Tech. B. 16, 58-63, 1925.  
iLangston, Miss. Tech. B. 15, 63-65, 1927.  
iLuginbill, Ann. Ent. Soc. Amer. 21, 60-61, 1928.
- Phyllophaga davisii*  
niLangston, Ann. Ent. Soc. Amer. 20, 221-223, 1927.  
iLangston, Miss. Tech. B. 15, 67-69, 1927.
- Phyllophaga deanii*  
iLuginbill, Ann. Ent. Soc. Amer. 21, 78-79, 1928.
- Phyllophaga debilis*  
Fall, Bklyn. Ent. Soc. B. 24, 110, 1929.  
iLangston, Miss. Tech. B. 15, 19-20, 1927.
- Phyllophaga delata*  
iLangston, Miss. Tech. B. 15, 60-61, 1927.
- Phyllophaga diffinis*  
iLangston, Miss. Tech. B. 15, 56-57, 1927.  
iLuginbill, Ann. Ent. Soc. Amer. 21, 83-84, 1928.
- Phyllophaga dispar*  
iLuginbill, Ann. Ent. Soc. Amer. 21, 88-89, 1928.
- Phyllophaga drakii*  
iLangston, Miss. Tech. B. 15, 44-46, 1927.
- Phyllophaga ephilida*  
iLangston, Miss. Tech. B. 15, 13-14, 1927.  
iLuginbill, Ann. Ent. Soc. Amer. 21, 82-83, 1928.
- Phyllophaga fervida*  
iLangston, Miss. Tech. B. 15, 42-43, 1927.  
iLuginbill, Ann. Ent. Soc. Amer. 21, 65-66, 1928.
- Phyllophaga forbesi*  
iLangston, Miss. Tech. B. 15, 14-15, 1927.
- Phyllophaga forsteri*  
iLangston, Miss. Tech. B. 15, 50-51, 1927.  
iLuginbill, Ann. Ent. Soc. Amer. 21, 74-75, 1928.



**Phyllophaga foxii**

iLuginbill, Ann. Ent. Soc. Amer. 21,  
73-74, 1928.

**Phyllophaga fraterna**

iLangston, Miss. Tech. B. 15, 48-49, 1927.

**Phyllophaga fusca**

iBrittain, N. S. Dept. Nat. Resource B.  
12, 72-73, 1927.

French, Mass. Ext. Leaf. 29, rev. 11,  
1928.

iHayes, Kans. Tech. B. 16, 41-45, 1925.

iLuginbill, Ann. Ent. Soc. Amer. 21,  
66-67, 1928.

iPettit, Mich. Sp. B. 183, 57-59, 1929.

**Phyllophaga futilis**

Hayes, Ann. Ent. Soc. Amer. 21, 289,  
1928.

iLangston, Miss. Tech. B. 15, 25-26, 1927.

**Phyllophaga glabberima**

iLuginbill, Ann. Ent. Soc. Amer. 21,  
81-82, 1928.

**Phyllophaga gracilis**

iLangston, Miss. Tech. B. 15, 23, 1927.

iLuginbill, Ann. Ent. Soc. Amer. 21,  
84-85, 1928.

**Phyllophaga guanicana**

iBox, Porto Rico Dept. Agr. J. 9, 301,  
1925.

**Phyllophaga hirsuta**

iLuginbill, Ann. Ent. Soc. Amer. 21,  
58-59, 1928.

**Phyllophaga hirticula**

iHayes, Kans. Tech. B. 16, 51-58, 1925.

iLangston, Miss. Tech. B. 15, 58-59, 1927.

iLuginbill, Ann. Ent. Soc. Amer. 21,  
57-58, 1928.

**Phyllophaga hirtiventris**

iLangston, Miss. Tech. B. 15, 26-27, 1927.

**Phyllophaga hornii**

iLangston, Miss. Tech. B. 15, 40-42, 1927.

**Phyllophaga ilicis**

iGlasgow, Bklyn. Ent. Soc. B. 21, 40-  
42, 1926.

Horsfall, Kan. Ent. Soc. J. 2, 71-72, 1929.

iLangston, Miss. Tech. B. 15, 61-62, 1927.

iLuginbill, Ann. Ent. Soc. Amer. 21,  
62-63, 1928.

**Phyllophaga impar**

iLuginbill, Ann. Ent. Soc. Amer. 21,  
79, 1928.

**Phyllophaga implicita**

iLangston, Miss. Tech. B. 15, 57-58, 1927.

**Phyllophaga iroides**

inFall, Bklyn. Ent. Soc. B. 24, 112, 1929.

**Phyllophaga kenscoffi**

niWolcott, Proc. Ent. Soc. Wash. 30, 24-  
25, 1928.

**Phyllophaga knochii**

iLangston, Miss. Tech. B. 15, 53-54, 1927.

iLuginbill, Ann. Ent. Soc. Amer. 21,  
68-69, 1928.

**Phyllophaga latifrons**

iLangston, Miss. Tech. B. 15, 10, 1927.

iLuginbill, Ann. Ent. Soc. Amer. 21,  
80-81, 1928.

**Phyllophaga latjungula**

nWolcott, Proc. Ent. Soc. Wash. 30, 28,  
1928.

**Phyllophaga longitarsa**

iHayes, Kans. Tech. B. 16, 23-28, 1925.

iLangston, Miss. Tech. B. 15, 17-18, 1927.

**Phyllophaga lota**

iLangston, Miss. Tech. B. 15, 18-19, 1927.

iLuginbill, Ann. Ent. Soc. Amer. 21,  
87-88, 1928.

**Phyllophaga luctuosa**

iLangston, Miss. Tech. B. 15, 51-53, 1927.

iLuginbill, Ann. Ent. Soc. Amer. 21,  
69-70, 1928.

**Phyllophaga mali**

niWolcott, Proc. Ent. Soc. Wash. 30, 25-  
26, 1928.

**Phyllophaga marginalis**

iLuginbill, Ann. Ent. Soc. Amer. 21,  
70-71, 1928.

**Phyllophaga mariana**

inFall, Bklyn. Ent. Soc. Bull. 24, 111, 1929.

**Phyllophaga micans**

iLangston, Miss. Tech. B. 15, 35-37, 1927.

iLuginbill, Ann. Ent. Soc. Amer. 21,  
76-77, 1928.

**Phyllophaga microdon**

iFall, Bklyn. Ent. Soc. B. 24, 113, 1929.

**Phyllophaga minutissima**

iWalton, Proc. Ent. Soc. Wash. 30, 76,  
1928.

niWolcott, Proc. Ent. Soc. Wash. 30, 28-  
29, 1928.

**Phyllophaga parvidens**

iLangston, Miss. Tech. B. 15, 65-66, 1927.

- iLuginbill, Ann. Ent. Soc. Amer. 21, 59-60, 1928.
- Phyllophaga paternoi**  
niGlasgow, Can. Ent. 57, 293-294, 1925.
- Phyllophaga patruellis**  
iStahl & Scaramuzza, Trop. Pl. Res. Foundation B. 10, 16, 1929.
- Phyllophaga perlonga**  
iLangston, Miss. Tech. B. 15, 46-47, 1927.
- Phyllophaga portoricensis**  
lBox, P. R. Dept. Agr. J. 9, 299, 1925.  
MacLeod, Penn. St. Ext. C. 122, 17, 1929.
- Phyllophaga postrema**  
iLangston, Miss. Tech. B. 15, 28-29, 1927.
- Phyllophaga praetermissa**  
iHayes, Kans. Tech. B. 16, 17-23, 1925.  
iLangston, Miss. Tech. B. 15, 11-12, 1927.
- Phyllophaga profunda**  
iLangston, Miss. Tech. B. 15, 54-55, 1927.
- Phyllophaga prunina**  
iLangston, Miss. Tech. B. 15, 29-30, 1927.
- Phyllophaga prununculina**  
iLangston, Miss. Tech. B. 15, 12-13, 1927.  
iLuginbill, Ann. Ent. Soc. Amer. 21, 75-76, 1928.
- Phyllophaga quercus**  
iLangston, Miss. Tech. B. 15, 66-67, 1927.  
Leiby, N. C. Dept. Agr. B. Feb. 1925, 37-38.  
iLuginbill, Ann. Ent. Soc. Amer. 21, 85, 1928.
- Phyllophaga rugosa**  
Glasgow, Ann. Ent. Soc. Amer. 19, 252-254, 1926.
- Phyllophaga soror**  
iLuginbill, Ann. Ent. Soc. Amer. 21, 89-91, 1928.
- Phyllophaga sp.**  
Barrow, J. Dept. Agr. P. R. 8; 2, 22-24, 1925.  
Barrow, Planter 75, 49, 1925.  
iHawley, Utah C. 54, 41-43, 1925.  
Hutchings, Quebec Soc. Protec. Pl. R. 18, 116, 1926.  
Loree, Mich. Sp. B. 182, 28, 1928.  
O'Kane, N. H. Ext. P. B. 135, 1925, 1 p.  
Patch, Garden Mag. 39, 290-291, 1924.  
iWoodard, et al, Tex. Dept. Agr. B. 95, 143-145, 1929.
- Phyllophaga spp.**  
Barrow, Planter 75, 49, Jl. 18, 1925.  
iBritton & Zappe, Conn. B. 292, 164, 1927.  
iCaesar, Ont. Dept. Agr. B. 325, 10-11, 1927.  
Call, Kans. R. f. 1924-26, 79.  
iCompton, Ill. C. 297, 17-19, 1925.  
Curtiss, Iowa R. 1926, 39, 1926.  
Curtiss, Iowa R. 1927, 34-35, 1927.  
iDavis, Ind. Farm Guide, 85, 1234, 1929.  
iDavis, U.S.F.B. 940, rev. Feb. '29, 27 p.  
Dean, Kan. Ent. Com. Bien. R. 10, 34, 1927.  
Fernald, Applied Ent. ed. 2, 110-113, 1926.  
Gallaher, U. S. Golf Assoc. Green Sec. B. 6, 15, 1926.  
iHarned, Miss. St. Plt. Bd. Quar. B. 8; 4, 14-16, 1929.  
Hayes & McCulloch, J. Ec. Ent. 21, 249-260, 1928.  
Headle, N. J. Hort. Soc. Proc. f. 1926, 28, 1926.  
Jaques, Proc. Iowa Acad. Sci. 32, 423, 1926; 33, 337-339, 1927; 34, 314-315, 1928; 35, 303-304, 1928.  
Langston, Miss. Tech. B. 15, '27, 103 p.  
Leach, Golfdom 2; 7, 20-25, 1928.  
Leiby, N. C. Dept. Agr. B. Feb. 1925, 37-38.  
MacLeod, Penn. St. Col. C. 122, 17, 1929.  
Macoun & Davis, Can. Dept. Agr. B. 80 (n.s.) 47, 1927.  
Mohler, Kans. St. Bd. Agr. Quar. R. 48, 191.  
Mote, Oreg. C. 65, 16-17, 1926.  
iO'Kane, Garden & Home Blder. 47, 232, 234, 1928.  
bPackard, Internat. Cong. Ent. 4, Tr. 2, 181-190, 1929.  
Patch, Garden Mag. 39, 291, 1924.  
iPeirson, Me. For. Serv. B. 5, 101-103, 1927.  
Petch & Armstrong, Quebec Soc. Protec. Pl. R. 17, 73, 1925.  
Petch & Hammond, Ont. Ent. Soc. R. 55, 27, 1925.  
nPettit, Mich. R. 1926, 11-12.

**Phyllophaga spp. Cont'd**

- Pettit, Mich. St. Bd. Agr. B. 65, 272, 1926.  
 Pettit, Mich. Quar. B. 10: 2, 40, 1927.  
 Reppert, Farm & Ranch, 45; 27, 3, 1926.  
 Scholl & Stephens, Tex. Dept. Agr. B. 84, 18, 1925.  
 iSears, Productive Small Frt. Cult. ed. 2, 116-118, 1925.  
 ibSim, N. J. Dept. Agr. C. 145, 1928, 60 p.  
 iStahl & Scaramuzza, Trop. Pl. Res. Foundation B. 10, 15-19, 1929.  
 iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 33, 1926.  
 ibSweetman, J. Ec. Ent. 20, 734-794, 1927.  
 Truitt, The Canner, 65; 11, 23, 1927.  
 Watson, Fla. Dept. Agr. Quar. B. 39, 3, 120-121, 1929.  
 iWoodard, Tex. B. 81, 172-174, 1925.  
**Phyllophaga spp.—Oviposition**  
 ibSweetman, J. Ec. Ent. 20, 783-794, 1927.  
**Phyllophaga taxodii**  
 iLangston, Miss. Tech. B. 15, 20-22, 1927.  
**Phyllophaga tristis**  
 iHayes, Kans. Tech. B. 16, 66-82, 1925.  
 iLangston, Miss. Tech. B. 15, 72-73, 1927.  
 iLuginbill, Ann. Ent. Soc. Amer. 21, 61-62, 1928.  
**Phyllophaga ulkei**  
 iLangston, Miss. Tech. B. 15, 39-40, 1927.  
 iLuginbill, Ann. Ent. Soc. Amer. 21, 63-65, 1928.  
**Phyllophaga vandinei**  
 iBox, P. R. Dept. Agr. J. 9, 300, 1925.  
 bEarle, Facts about sugar 22, 1912, 1927.  
**Phyllophaga vehemens**  
 Glasgow, Ann. Ent. Soc. Amer. 20, 86, 1927.  
 iHayes, Kans. Tech. B. 16, 35-40, 1925.  
 iLangston, Miss. Tech. B. 15, 38-39, 1927.  
 iLuginbill, Ann. Ent. Soc. Amer. 21, 67-68, 1928.  
**Phyllophaga vilifrons**  
 iLuginbill, Ann. Ent. Soc. Amer. 21, 89, 1928.

**Phyllotoma aceris**

- iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 215-219.  
**Phyllotoma nemorata** (Birch leaf-mining sawfly)  
 bPeirson, J. Ec. Ent. 22, 588-594, 1929.  
 Taylor, Bklyn. Ent. Soc. B. 24, 323-324, 1929.  
 Taylor, J. Ec. Ent. 22, 1001, 1929.  
**Phyllotreta aerea**  
 Chittenden, Proc. Ent. Soc. Wash. 28, 141, 1926.  
**Phyllotreta alberta**  
 nChittenden, Ent. Amer. 8, 28-29, 1927.  
**Phyllotreta albionica**  
 Brisley, Trans. Amer. Ent. Soc. 51, 176, 1925.  
 iGlendenning, Can. Dept. Agr. Pam. 80 n.s., 1927, 10 p.  
**Phyllotreta amplicornis**  
 nChittenden, Ent. Amer. 8, 35-36, 1927.  
**Phyllotreta armoraciae** (Horse-radish flea beetle)\*  
 Britton, Conn. B. 305, 762, 1929.  
 Compton, Ill. C. 297, 45, 1925.  
 Dempsey, Amer. Prod. Grow. 4; 9, 10, 1929.  
 Herrick, Rur. N. Y. 84, 972, 1925.  
**Phyllotreta brevipennis** 52, *columbiana* 46-47, *decipiens* 38, *fulgida* 50-51, *herbacea* 41-42, *inconspicua* 49-50, *inordinata* 57-58, *laticornis* 54-55  
 nChittenden, Ent. Amer. 8, 1927.  
**Phyllotreta lewisii**  
 Brisley, Trans. Amer. Ent. Soc. 51, 176, 1925.  
**Phyllotreta oblonga** 31-32, *obtusa* 30-31, *perspicua* 29-30, *polita* 56-57, *prasinata* 42-43  
 nChittenden, Ent. Amer. 8, 1927.  
**Phyllotreta pusilla** (Western garden flea beetle)  
 Brisley, Trans. Amer. Ent. Soc. 51, 175-176, 1925.  
**Phyllotreta sinuata** (Wavy-striped flea beetle)  
 Weese, Ill. Biol. Mon. 9; 4, 14-15, 1924.  
**Phyllotreta sp.**  
 iGlendenning, Can. Dept. Agr. Pam. 80, n.s. 1927, 10 p.

**Phyllotreta spp.—Tables**

Chittenden, Ent. Amer. 8, 7-14, 1927.

Chittenden, Can. Ent. 60, 53, 1928.

**Phyllotreta subnitida** 47-48, transverso-  
valis 51-52, viridicyanea 55-56

nChittenden, Ent. Amer. 8, 1927.

**Phyllotreta vittata**iBrittain, N. S. Dept. Nat. Resource B.  
12, 70-71, 1927.iCaesar, Ont. Dept. Ent. Agr. B. 325,  
36-37, 1927.nChittenden, Ent. Amer. 8, 25-26, 1927.  
Compton, Ill. Hort. Soc. Tr. 60, 410,  
1926.Needham, Frost & Tothill, Leaf-min-  
ing insects, 1928. 203-204.

Pettit, Mich. Sp. B. 183, 17, 1929.

**Phylloxera caryaecaulis** (Hickory phyl-  
loxera)Leiby, N. C. Dept. Agr. B. Feb. 1925,  
36-37.**Phylloxera caryaeseptem**

ibMartin, Bot. Gaz. 79, 297-310, 1925.

**Phylloxera devastatrix** (Pecan Phyllox-  
era)Hamner, Miss. St. Pl. Bd. Quar. B.  
8: 1, 1-4, 1928.**Phylloxera resistant vineyards—Cal.**

iBonnet, Cal. C. 288, 1925, 24 p.

**Phylloxera sp.**

Harned, Miss. R. 38, 27-28, 1925.

**Phylloxera spp.**

Johnstone, Cal. Cult. 70, 286, 1928.

Bonnet, Cal. Cult. 67, 384, 1926.

Leiby, N. C. Dept. Agr. B. Feb. 1925,  
36 p.**Phylloxera vastatrix, see Phylloxera**  
vitifoliae**Phylloxera vitifoliae** (Grape phylloxera)\*

Essig, Cal. B. 411, 16, 1926.

Essig, Insects of Western No. Amer.  
1926, 225-227.

G: F. E., Rur. N. Y. 85, 1427, 1926.

Fernald, Applied Ent. ed. 2, 203-205,  
1926.ibNougaret & Lapham, U. S. D. A. Tech.  
B. 20, 1928. 38 p.Park, Oreg. St. B. Hort. Bien. R. 19,  
61, 1927.Quaintance & Baker, U. S. F. B. 1128,  
rev. Apr. 1926, 27.Ryan, Cal. Dept. Agr. Mo. B. 17, 623,  
1928.Sears, Productive small Fruit Cult. ed.  
2, 340, 1925.**Phymata erosa** (Ambush bug)

iMiller, Fla. B. 203, 462, 1929.

bi Radio, Bklyn. Ent. Soc. B. 22, 256-  
263, 1927.**Phymatodes aeneus**Hardy & Preece, Pan-Pac. Ent. 4; 2,  
65-66, 1927.**Phymatodes decussatus**Hardy & Preece, Pan-Pac. Ent. 3; 1,  
38, 1926; 3, 191-192, 1927.**Phymatodes fulgidus**

nHopping, Can. Ent. 60, 246, 1928.

**Phymatodes vulneratus**Hardy & Preece, Pan. Pac. Ent. 3: 1,  
38-39, 1926; 3, 190-191, 1927.**Physcus howardi**niCompere, Cal. Univ. Pub. Ent. 4; 8,  
223-224, 1928.**Physiology of insects, see Insects—Phy-  
siology****Physocephala aurifacies** 581-582, brevi-  
rostris 579-580, buccalis 582-583,  
humeralis 580-581; nVan Duzee,  
Cal. Acad. Sci. Proc. 16; 18, 1927.**Physocephala saggitaria**Frison, Ann. Ent. Soc. Amer. 19, 221-  
223, 1926.**Physocleora marcia, santosia**nSchaus, Proc. Ent. Soc. Wash. 29, 81-  
82, 1927.**Physokermes abietis** (Spruce bud scale)

iPettit, Mich. Ent. R. f. 1927, 17.

Pettit, Mich. St. Bd. Agr. R. 66, 353,  
1928.**Physokermes insignicola**Keen, Cal. Dept. Nat. Resources B. 7,  
98-99, 1928.**Physokermes piceae**

Felt, J. Ec. Ent. 20, 67, 1927.

iMcDaniel, Mich. Ext. B. 76, 9-10, 1929.

Peirson, Me. For. Ser. B. 5, 118, 1927.

Swaine & Hutchings, Can. Dept. Agr.  
Ent. B. 28, 49, 1926.

**Physconelloides** n. gen., ceratoceps

nEwing, J. Wash. Acad. Sci. 17, 94-95, 1927.

**Physonata helianthi**

Fletcher, Can. Ent. 61, 259, 1929.

**Physonata** spp.—Synonymy

Criddle, Can. Ent. 58, 207-208, 1926.

**Phytalus apicalis**

Box, P. R. Dept. Agr. J. 9, 302, 1925.

**Phytalus vanalleri**

nSchaeffer, Bklyn. Ent. Soc. B. 22, 215-216, 1927.

**Phytocoris acaciae**

nKnight, Bklyn. Ent. Soc. B. 20, 53, 1925.

**Phytocoris albifacies** 159-160, **albitylus** 162-163

niKnight, Bklyn. Ent. Soc. B. 21, 1926.

**Phytocoris angusticollis**

nKnight, Bklyn. Ent. Soc. B. 20, 57, 1925.

**Phytocoris angustifrons**

niKnight, Bklyn. Ent. Soc. B. 21, 164, 1926.

**Phytocoris apache**

nKnight, Bklyn. Ent. Soc. B. 23, 41-42, 1928.

**Phytocoris balli** 167-168, **borealis** 158-159

nKnight, Bklyn. Ent. Soc. B. 21, 1926.

**Phytocoris cercocarpi** 39, **comulus** 38

nKnight, Bklyn. Ent. Soc. B. 23, 1928.

**Phytocoris covilleae** 54, **cuneotinctus** 55

nKnight, Bklyn. Ent. Soc. B. 20, 1925.

**Phytocoris difficilis**

nKnight, Proc. Biol. Soc. Wash. 40, 17-18, 1927.

**Phytocoris exemplis**

nKnight, Bklyn. Ent. Soc. B. 21, 163, 1926.

**Phytocoris fulvipennis** 31-32, **fuscusignatus** 45-46, **hesperius** 44-45, **hopi** 42-44

nKnight, Bklyn. Ent. Soc. B. 23, 1928.

**Phytocoris junipericola**

nKnight, Proc. Biol. Soc. Wash. 40, 16, 1927.

**Phytocoris listi**

nKnight, Bklyn. Ent. Soc. B. 23, 30-31, 1928.

**Phytocoris mellarius**

nKnight, Bklyn. Ent. Soc. B. 20, 56, 1925.

**Phytocoris mirus** 35-36, **nicholi** 29-30.

nKnight, Bklyn. Ent. Soc. B. 23, 1928.

**Phytocoris nigripubescens**

nKnight, Bklyn. Ent. Soc. B. 20, 55, 1925.

**Phytocoris oppositus**

nKnight, Bklyn. Ent. Soc. B. 21, 160-162, 1926.

**Phytocoris osborni** 28-29, **piceicola** 32-34

nKnight, Bklyn. Ent. Soc. B. 23, 1928.

**Phytocoris purvus**

nKnight, Proc. Biol. Soc. Wash. 40, 17, 1927.

**Phytocoris radicola**

nBlatchley, J. N. Y. Ent. Soc. 36, 11, 1928.

**Phytocoris roseotinctus**

nKnight, Bklyn. Ent. Soc. B. 20, 52, 1925.

**Phytocoris rubellus** 166-167, **schotti** 162, **signatipes** 164-165

niKnight, Bklyn. Ent. Soc. B. 21, 1926.

**Phytocoris simulatus**

nKnight, Ent. Soc. B. 23, 34-35, 1928.

**Phytocoris strigosus**

nKnight, Bklyn. Ent. Soc. B. 20, 51, 1925.

**Phytocoris taxodii**

nKnight, Bklyn. Ent. Soc. B. 21, 165-166, 1926.

**Phytocoris tinctus** 36-37, **umbrosus** 37-38

nKnight, Bklyn. Ent. Soc. B. 23, 1928.

**Phytodietus distinctus**, **pulcherrimus**

Balduf, Ohio J. Sci. 29, 233-234, 1929.

**Phytometra** oo.

Bottimer, J. Agr. Res. 33, 800, 1926.

**Phytomyza angelicella**

nFrost, Ann. Amer. Ent. Soc. 20, 218-219, 1927.

**Phytomyza aquilegiae** (Columbine leaf miner)\*

iBritton & Zappe, Conn. B. 292, 168-169, 1927.

nFrost, Can. Ent. 60, 77-78, 1928.

**Phytomyza atripalpis**

nAldrich, Ent. Soc. Wash. Proc. 31, 89, 1929.

**Phytomyza auricornis**

nFrost, Ann. Ent. Soc. Amer. 20, 217-218, 1927.

**Phytomyza delphinae** (Larkspur leaf miner)

nFrost, Can. Ent. 60, 72-78, 1928.

**Phytomyza ilicis** (Holly leaf miner)

Felt, N. Y. St. Mus. B. 267, 32, 1926.

Felt, N. Y. St. Mus. B. 274, 173-174, 1928.

**Phytomyza marginales**

nFrost, Ann. Amer. Ent. Soc. 20, 219-220, 1927.

**Phytomyza sp.**

Frost, Can. Ent. 60, 77, 1928.

**Phytomyza spp.**

iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 261-265.

**Phytonomus nigrirostris (Lesser clover leaf weevil)\***

Cooley, Mont. B. 170, 27, 1925.

Hudson & Wood, Ont. Ent. Soc. R. 55, 71-73, 1925.

iUnderhill, Va. Crop. Pest Com. Quar. B. 6; 1, 1, 1924.

Weese, Ill. Biol. Mon. 9; 4, 15, 1924.

**Phytonomus posticus (Alfalfa weevil)\***

Allen, Ore. Farm. 49, 213, 1929.

iBallard, Hoard's Dairym. 69, 612, My 8, 1925.

Carter & Ruggles, Minn. Ext. Sp. B. 99, 5, 1925.

biCook, J. Agr. Res. 30, 479-491, 1925.

Cook, J. Ec. Ent. 20, 644-645, 1927.

Fleury, Cal. Cult. 67, 369, 1926.

Fracker, Wis. Dept. Agr. B. 82, 49, 1927.

Gillette, Cal. Cult. 67, 10, 1926.

Iddings, Ida. B. 135, 28, 1925.

Jacobsen, Cal. Dept. Agr. Mo. B. 15, 131, 1926.

Jardine, Oreg. Bien. Rept. 1924-26, 103-107, 1926.

iLarrimer & Reeves, J. Ec. Ent. 22, 491-495, 1929.

Newton, Colo. Ent. C. 47, 18-24, 1925.

Newton, Colo. Ent. C. 51, 15, 1926.

Newton, J. Ec. Ent. 19, 371-374, 1926.

Pettit, Mich. Sp. B. 183, 49, 1929.

ibReeves, U.S.F.B. 1528, 1927, 22 p.

Reeves, J. Ec. Ent. 22, 443, 1929.

Schweis, Nevada Univ. Ext. B. 59, 1926, 3 p.

Schweis, Cal. Dept. Agr. Sp. Pub. 85, 80-82, 1928.

iSnow, Nevada B. 108, 1925, 22 p.

iStewart, Farm. J. 50; 4, 18, 1926.

ibSweetman, Wyo. B. 167, 1929, 32 p.

iSwenk, Neb. Bd. Agr. R. f. 1927, 148-155.

Urbahns, Cal. Agr. B. 14, 177, 1926.

Wakeland, Idaho B. 138, 1925, 11 p.

Wakeland, Cal. Dept. Agr. Sp. Pub. 72, 52-53, 1925-27.

**Phytonomus posticus—Parasites**

Chamberlin, J. Ec. Ent. 18, 597-602, 1925.

bChamberlin, J. Ec. Ent. 19, 302-311, 1926.

Doten, Nev. R. f. 1924, 16, 1925.

**Phytonomus posticus—Quarantine**

Bentley, Tenn. Plant Dis. Control B. 47, 14-15, 1926.

Chambers, Wis. Dept. Agr. B. 98, 93, 1929.

Gillette, Colo. News Notes 855, 1926.

Jacobbsen, Cal. Agr. B. 14, 146, 1926.

Jones, Wis. Dept. Agr. B. 69, 87-88, '24.

Park, Oreg. St. Bd. Hort. Bien. R. 19, 43-46, 56-59, 1927.

Reeves, Cal. Dept. Agr. Sp. Pub. 54, 65-71, 1925.

Webb, Cal. Dept. Agr. Sp. Pub. 54, 23, 1925.

—Kans. Ent. Com. Quar. Notice 3, 1926.

—Kansas Ent. Com. Quarantines 1927, 5-6.

—Oreg. St. Bd. Hort. Bien. R. 19, 13, 1927.

—Wis. Dept. Agr. C. 26, 1926, 3 p.

**Phytonomus posticus and auto inspection**

—Cal. Dept. Agr. Mo. B. 17, 573, 1928.

**Phytonomus quadricollis**

Jones, Pan-Pac. Ent. 4, 142, 1928.

**Phytophaga destructor (Hessian fly)\***

Bainer, Kans. Farm. 67; 31, 10, 1929.

iBentley, Tenn. Dept. Agr. Bien. R. 1923-24, 44.

Burnett, Neb. R. 37, 22-24, 1924.

Burnett, Neb. R. 39, 17, 1926.

Call, Kans. R. f. 1924-26, 74-75.

Call, Kans. R. f. 1926-28, 69-71, 80-81.

Cook, Ecology, 10, 283, 1929.

Cooley, Mont. B. 170, 21, 25, 1925.

Cordell, Northw. Mill. & Amer. Baker 6, 1097, 1929.

iCotton, Ohio Bi-Mo. B. 140, 153-155, 1929.

Cotton, Ohio Farm. 164, 115, 1929.

Curtiss, Iowa R. f. 1924, 43-44.

Curtiss, Iowa R. f. 1926, 39.

**Phytophaga destructor** *Coul'd*

- Davis, Ind. Acad. Sci. Proc. 41, 305, 1925.  
 Davis, Ind. Farm. Guide 85, 1005, 1929.  
 Dean, McColloch & Kelly, Kans. Ext. X form 225, 1925.  
 ihDean, McColloch & Kelly, Kans. Ext. ser. X-form 229, July 1927, 4 p.  
 Drake, Iowa Homestead, 74, 1356, 1929.  
 Flint & Larrimer, Ill. Nat. Hist. Surv. B. 17 (Art. 11) 363-385, 1928.  
 Gorham, Sci. Agr. 7, 287-289, 1927.  
 Harman, Mich. Bd. Agr. R. 65, 204, 1927.  
 Haseman, Mo. Farm. 21, 352, 1929.  
 Haseman & Sullivan, Mo. B. 228, 48, 1925; 236, 51, 1926; 244, 36, 1926.  
 ihHill & Smith, J. Ec. Ent. 18, 69, 1925.  
 ihHill & Smith, Pa. Dept. Agr. B. 481, 1929, 11 p.  
 iHouser, O. Bimonth. B. 12, 139-142, 1927.  
 Kelly, J. Ec. Ent. 18, 177, 1925.  
 ihKelly, Kans. Ext. B. 62, 10-14, 1929.  
 King, Sci. Agr. 9, 384, 1929.  
 biLarrimer, J. Agr. Res. 31, 567-574, 1925.  
 Larrimer, Nebr. Union Farm. 16; 11, 8, 1929.  
 iLarrimer & Packard, Ind. C. 167, 1929, 12 p.  
 List & Langford, J. Ec. Ent. 20, 740, 1927.  
 McColloch, J. Ec. Ent. 18, 65, 1925.  
 ibiPackard, U.S.D.A. Tech B. 81, 1928, 26 p.  
 Parks, Farm & Dairy, 15; 9, 17, 1928.  
 ihPettit, Mich. Sp. B. 183, 65-66, 1929.  
 iRockwood, Oreg. C. 77, 3-7, 1926.  
 iRude, Okla. Ext. C. 242, 1928 (?), 4 p.  
 Russell, Morrison & Ebling, Wis. B. 388, 70, 1926.  
 iSwenk, Neb. Crop. Grow. Assoc. R. 15, 86-98, 1924.  
 iWebster, Dak. Farm. 45, 145, 1925.  
 iWebster, N. Dak. C. 25, 15-20, 1925.  
 Webster, N. Dak. B. 194, 60, 1926.  
 Windhorst, Kans. St. Bd. Agr. B. en. R. 25, 103, 1927.  
**Phytophaga destructor—Fly, Free date**  
 Reck, Iowa Agr. 24, 75-77, 1923.  
 Williams, Ohio Farm. 162, 110, 1928.

**Phytophaga destructor—Loss from**

- Bainer, Kans. Union Farm. 21; 50, 2, 1929.  
 Curtis, Iowa R. f. 1926, 39.  
 Hill, Penn. Grange News, 26; 6, 16, 1929.  
 Larrimer, Amer. El. & Gr. Tr. 48, 147, 1929.

**Phytophaga destructor—Parasites**

- Hill & Smith, J. Agr. Res. 36, 151-155, 1928.  
 Larrimer & Noble, J. Agr. Res. 32, 1049-1051, 1926.  
 Sherman, N. C. R. 47, 76, 1925.

**Phytophaga destructor—% infested.**

- Larrimer & Cartwright, J. Agr. Res. 32, 1041-1044, 1926.

**Phytophaga destructor—Survey, Ohio**

- Cotton, Ohio Farm. 164; 1, 5, 1929.

**Phytophaga destructor & yield**

- Cartwright & Larrimer, J. Agr. Res. 32, 1045-1048, 1926.

**Phytophaga occidentalis**

- nFelt, J. Ent. & Zool. 18, 70-80, 1926.

**Phytophaga picaea**

- nFelt, Can. Ent. 58, 229-230, 1926.

**Phytophaga tetradyimia**

- nFelt, J. Ent. & Zool. 17, 15, 1925.

**Phytophagous insects**

- biHayes, Kans. Tech. B. 16, 1925, 146 p.  
 Wilcox, J. Ec. Ent. 19, 189, 190-191, 1926.

**\*Pickle worm, see Diaphania nitidalis****Picobia bipectinatus (Quill mite)**

- Beach & Freeborn, Cal. Ext. C. 8, 61, 1929.

**Pieris, see Pontia****Piezocorynus mixtus**

- bBlatchley, J.N.Y. Ent. Soc. 33, 88, '25.

**Pigeon fly, see Pseudolynchia maura****Pigeon hippoboscid, see Lynchia maura****Pigeon horntail, see Tremex columba****Pigeon louse, broad, see Goniocotes bi-dentatus****Pigeon louse, slender, see Esthiopterum columbae****\*Pigeon tremex, see Tremex columba****Pilaria arguta**

- nAlexander, Ent. News 40, 47, 1929.

- Pilaria rubella*  
nAlexander, Ann. Ent. Soc. Amer. 19, 169-170, 1926.
- Pilaria triangularis*  
nAlexander, J. N. Y. Ent. Soc. 35, 270, 1927.
- Pilaria vermontana*  
nAlexander, Ent. News 40, 47-48, 1929.
- Pill bug, *see* *Armadillidium vulgare*
- Pilophorus australis*  
nKnight, Bklyn. Ent. Soc. B. 21, 22, 1926.
- Pilophorus brimleyi*  
nBlatchley, Ent. News 37, 165-166, 1926.
- Pilophorus fuscipennis* 23-24, *geminus* 22-23, *nasicus* 18-19, *opacus* 24-26, *piceicola* 19-21, *strobicola* 19  
nKnight, Bklyn. Ent. Soc. B. 21, 1926.
- Pimaphera* n. gen., *percata*  
nCassino & Swett, Lepidopterist 4, 81-83, 1927.
- Pimento whitefly, *see* *Aleurodicus pimentae*
- Pimpla roborator*, *see* *Exeristes roborator*
- Pindar, Peter—Entomology of his poems  
Weiss, J. N. Y. Ent. Soc. 34, 231-240, 1926.
- Pine bark aphid, *see* *Chermes pinicorticis*
- Pine beetles  
Evenden, Timberman, 27; 4, 178, 180, 1926.  
Keen, Timberman, 27; 5, 178-182, 1926.  
Miller, J. For. 24, 897-910, 1926.  
Walsh, Amer. For. & For. Life 33, 482, 1927.  
iWalsh, Golfdom 2; 5, 45-47, 1928.
- Pine butterfly, *see* *Neophasia menapia*
- Pine cone beetle, *see* *Conophthorus coniperda*
- Pine cone willow gall, *see* *Rhabdophaga strobiloides*
- Pine devil moth, *see* *Citheronia sepulchralis*
- Pine insects  
iChamplain & Kirk, Amer. For. 32, 455-456, 1926.  
Heinrich, Proc. Ent. Soc. Wash. 30, 61-65, 1928.  
iKeen, Cal. Dept. Nat. Resources, Div. For. B. 7, 1928, 113 p.  
Peirson, Me. For. Ser. B. 5, 110, 1927.
- Pine leaf miner, *see* *Paralechia pinifoliella*
- Pine leaf scale, *see* *Chionaspis pinifoliae*
- Pine moth, (Nantucket pine moth), *see* *Rhyacionia frustana*
- Pine needle miner, *see* *Recurvaria milleri*
- Pine needle mite, *see* *Eriophyes pini*
- Pine sawfly, (Red-headed pine sawfly)\*, *see* *Neodiprion lecontei*
- Pine scale, *see* *Toumeyella pinicola*
- Pine sesiid, *see* *Vespamina sequoiae*
- Pine sheath miner, *see* *Diplosis* sp.
- Pine-shoot moth, European pine-shoot moth,\* *see* *Rhyacionia buoliana*
- Pine spittle bug, *see* *Aphrophora parallelala*
- Pine tipmoth, (Nantucket pine moth), *see* *Rhyacionia frustana*
- Pine tube moth, *see* *Eulia pinatubana*
- Pine webworm, *see* *Benta malanogrammos*
- Pineapple insects  
bIllingworth, Assoc. Haw. Pineapple Canners Exp. Sta. B. 7, 1926, 16 p.  
ibIllingworth, Exp. Sta. Haw. Pineapple Canners B. 9, 1926, 64 p.  
Illingworth, Haw. Pineapple Canners Assoc. Pineapple News, 1, 11-13, 38, 1927.  
Illingworth, Pineapple News 2, 109-113, 1928.
- \*Pineapple scale, *see* *Diaspis bromeliae*
- \*Pineapple weevil, *see* *Metamasius ritchiei*
- Pineus borneri* 112, *boycei* 102-104, *cembrae* 128-130, *coloradensis* 122, *engelmanni* 130-132, *pinifoliae* 93-102, *strobi* (Pine bark aphid) 126-128, *sylvestris* 115  
niAnnand, Stanford, Univ. Pub. Biol. Sci. 6; 1, 1928.
- Pink-backed cutworm, *see* *Polia meditata*
- \*Pink boll worm, *see* *Pectinophora gossypiella*
- Pink cornworm, *see* *Pyroderces rileyi*



- Pink katydid, *see* *Amblycorypha oblongifolia*
- Pink sugarcane borer, *see* *Meropleon cosmion*
- Pinnaspis aspidistrae*  
Lieber, Ind. Dept. Conserv. R. 9, 56, 1927.
- Pins—Removal from insects  
iHolbrook, J. Ec. Ent. 20, 642-643, 1927.
- Piona americana*  
inMarshall, Wis. Acad. Sci. Tr. 24, 401-404, 1929.
- Piona insularis* 243, *latigenitalia* 242, *longiseta* 243, *neocarnea* 241  
nbMarshall, Trans. Amer. Micr. Soc. 43, 1924.
- Piona rheigardi*  
Miller, Ohio B. 386, 124, 1925.
- Piona rubrapes*  
nbMarshall, Trans. Amer. Micr. Soc. 43, 241-242, 1924.
- Pionea insiola*  
nDyar, Ins. Insc. Mens. 13, 7, 1925.
- Pionopsis latilamellis*  
nbMarshall, Trans. Amer. Micr. Soc. 43, 244, 1924.
- Piophilha casei* (Cheese Skipper)\*  
Chandler, Animal Parasites ed. 3, 526, 1925.  
iFelt, N. Y. St. Mus. B. 274, 22, 1928.  
Gibson & Twinn, Can. Dept. Agr. B. 112, 15, 1929.  
iHungerford, Kans. St. Bd. Agr. Bien. R. 24, 114, 1924.  
McDaniels, Mich. C. B. 106, 13-14, 1927.  
Simmons, J. Wash. Acad. Sci. 17, 403, 1927.
- Pipe organ wasp, *see* *Trypoxylon politum*
- Pipunculus bequaerti*  
nCurran, Amer. Mus. Nov. 340, 1, 1929.
- Pipunculus eronis*  
nCurran, Can. Ent. 59, 291-292, 1927.
- Pipunculus liberia* 2-3, *tubuti* 1-2, *pallidipleura* 2  
nCurran, Amer. Mus. Nov. 340, 1929.
- Pipunculus spp.*—Key  
Curran, Can. Ent. 59, 290-291, 1927.
- Pipunculus stricklandi*  
nCurran, Can. Ent. 59, 291, 1927.
- Piriona n. gen., fasciculata*  
nAldrich, P.U.S.N.M. 74; 1, 24-25, 1928.
- Pissodes approximatus*  
Britton, Conn. B. 305, 762-763, 1929.  
iFisher, Proc. Ent. Soc. Wash. 9, 182-187, 1929.
- Pissodes californicus*  
Keen, Cal. Dept. Nat. Resources B. 7, 69, 1928.
- Pissodes dubius* (Fir weevil)  
Peirson, Me. For. Ser. B. 5, 66-67, 1927.
- Pissodes ochraceus*  
nVan Dyke, Pan-Pac. Ent. 4, 12, 1927.
- Pissodes radiatae*  
Keen, Cal. Dept. Nat. Resources B. 7, 70, 1928.
- Pissodes robustus*  
nVan Dyke, Pan-Pac. Ent. 4, 11-12, '27.
- Pissodes strobi* (White-pine weevil)\*  
Bailey, Comm. Agr. Vt. Bien. R. 13, 56-60, 1926.  
Bailey, Vt. Agr. Bien. R. 14, 90-91, 1928.  
Barnes, Internat. Cong. Ent. 4, Tr. 2, 412-413, 1929.  
iBoving, Proc. Ent. Soc. Wash. 9, 182-187, 1929.  
iBritton & Zappe, Conn. B. 292, 164-165, 1927.  
iCope, Tree talk 8; 3, 20-25, 1927.  
Felt, N. Y. St. Mus. B. 267, 42-43, 1926.  
Felt, N. Y. St. Mus. B. 274, 161-166, 1928.  
Fernald, Applied Ent. ed. 2, 143-144, 1926.
- biGraham, N. Y. C. B. 449, 1926, 32 p.  
Kendall, N. H. B. 221, 13, 1926.  
iKendall, N. H. B. 238, 22, 1929.  
iMacAloney, N. Y. St. Col. For. Papers For. Protec. Conf. Nov. 10-12, 1926, 31-43, 1927.  
MacAloney, U. S. For. Worker 4; 2, 13, 1928.  
MacAloney, Nat. Shade Tree Conf. R. 5, 69-72, 1929.  
iPeirson, Me. For. Ser. B. 5, 103-104, 1927.  
iPlummer & Pillsbury, N. H. B. 247, 1929, 31 p.  
Snyder, Nature Mag. 5, 313, 1925.  
iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 40-41, 1926.

- Taylor, Psyche, 35, 217-225, 1928.  
 Taylor, Ent. Amer.—n.s., 9, 206-246, 1929.  
 biTaylor, Ent. Amer. 10, 1-86, 1929.  
 Wells, J. Ec. Ent. 19, 412-413, 1926.
- Pissodes terminalis**  
 Keen, Cal. Dept. Nat. Resources B. 7, 70, 1928.
- Pissodes yosemite**  
 iKeen, Cal. Dept. Nat. Resources B. 7, 69, 1928.
- Pissonotus giffardi**  
 nVan Duzee, Proc. Cal. Acad. Sci. ser. 4, 14, 407-408, 1925.
- \***Pistol case bearer**, *see* **Haploptilia malivorella**
- Pitch-mass borer**, *see* **Parharmonia pini**
- Pitch midge**, *see* **Retinodiplosis resinicola**
- Pitch nodule maker**, *see* **Petrova comstockiana**
- Pitch ray miners**, *see* **Agromyza spp.**
- Pitch twig moth**, *see* **Rhyacionia comstockiana**
- Pityoborus secundus**  
 niBlackman, N. Y. St. Coll. For. B. 1; 3-b, 146-147, 1928.
- Pityogenes carinulatus**  
 iKeen, Cal. Dept. Nat. Resources B. 7, 53, 1928.
- Pityogenes hopkinsi**  
 iBeal, Ann. Ent. Soc. Amer. 20, 522-539, 1927.  
 iPeirson, Me. For. Ser. B. 5, 108, 1927.
- Pityogenes spp.**  
 Keen, Cal. Dept. Nat. Resources B. 7, 49-53, 1928.
- Pityokteines sparsus** (Balsam bark beetle)  
 Peirson, Me. For. Ser. B. 5, 67, 1927.  
 iPettit, Mich. Ent. R. f. 1927, 12.  
 Pettit, Mich. St. Bd. Agr. R. 66, 348, 1928.
- Pityophilus**—n. gen., **barbatus**  
 niBlackman, N. Y. St. Coll. For. B. 1; 3-b, 147-148, 1928.
- Pityophthorus abietis** 49-50, **absonus** 35-36, **acutus** 134-136, **agnatus** 125-127, **albertensis** 50-51, **anceps** 31-32, **angustus** 83-84, **aquilus** 33-34, **artifex** 76-77, **barberi** 112-113, **bellus** 123-124, **blandus** 107-108; niBlackman, N. Y. St. Coll. For. B. 1; 3-b, 1928.
- Pityophthorus borealis**, **boycei**  
 nSwaine, Can. Ent. 57, 192-196, 1925.
- Pityophthorus brevis** 81-82, **burkei** 129-130, **caelator** 78-79; niBlackman, N. Y. St. Coll. For. B. 1; 3-b, 1928.
- Pityophthorus carinulatus**  
 nSwaine, Can. Ent. 57, 193, 1925.
- Pityophthorus carmeli** 97-98, **cascoensis** 99-100, **citus** 137, **clarus** 130-131, **cognatus** 69-70, **comosus** 65-66, **comptus** 127-128, **concaus** 85-86, **crassus** 67-69, **crinalis** 41-42  
 niBlackman, N. Y. St. Coll. For. B. 1; 3-b, 1928.
- Pityophthorus cutleri**  
 nSwaine, Can. Ent. 57, 195, 1925.
- Pityophthorus demissus** 74-75, **depygis** 128-129, **durus** 70-71, **electus** 140  
 niBlackman, N. Y. St. Coll. For. B. 1; 3-b, 1928.
- Pityophthorus elongatus**  
 nSwaine, Can. Ent. 57, 194-195, 1925.
- Pityophthorus exiguus**  
 niBlackman, N. Y. St. Coll. For. B. 1; 3-b, 51-52, 1928.
- Pityophthorus exilis**  
 nSwaine, Can. Ent. 57, 196, 1925.
- Pityophthorus fortis** 142-143, **fuscus** 32-33  
 niBlackman, N. Y. St. Coll. For. B. 1; 3-b, 1928.
- Pityophthorus gracilis**  
 nSwaine, Can. Ent. 57, 195, 1925.
- Pityophthorus grandis** 119-121, **hopkinsi** 56-57, **hubbardi** 105-106, **idoneus** 55-56, **immanis** 98-99, **infultatus** 103-104, **ingens** 124-125, **inquietus** 46-47, **jefferyi** 113-114, **juglandis** 42-43, **kenti** 141, **mexicanus** 121-122, **modicus** 94-95, **mollis** 104-105, **monophyllae** 47, **mundus** 86-88, **navus** 95-96, **novellus** 96-97, **opimus** 80-81, **ornatus** 102-103, **ponderosae** 57-58  
 niBlackman, N. Y. St. Coll. For. B. 1; 3-b, 1928.
- Pityophthorus rugicollis**  
 nSwaine, Can. Ent. 57, 193-194, 1925.

- Pityophthorus scalptor* 30-31, *schwarzi* 71-72, *segnis* 52-53, *setosus* 77-78, *socius* 48, *solers* 138-140, *solus* 64-65; niBlackman, N.Y. St. Coll. For. B. 1; 3-b, 1928.
- Pityophthorus* spp.  
ibBlackman, N. Y. St. Coll. For. B. 1; 3-b, 1-183, 1928.  
Keen, Cal. Dept. Nat. Resources Div. For. B. 7, 53-54, 1928.
- Pityophthorus tenuis*  
nSwaine, Can. Ent. 57, 196, 1925.
- Pityophthorus tonsus* 101-102, *tumidus* 58-59, *venustus* 75-76, *virilis* 143-145; niBlackman, N. Y. St. Coll. For. B. 1; 3-b, 1928.
- Placopterus thoracicus*  
Taylor, Ent. Amer. 10; 71, 1929.
- Plagalebra*—n. subgen.  
nMcAtce, J. N. Y. Ent. Soc. 34, 151-152, 1926.
- Plagioderma versicolora* (European willow beetle)  
iBritton & Zappe, Conn. B. 292, 145, 1927.  
Hadley, J. Ec. Ent. 20, 707-708, 1927.  
Peirson, Me. For. Ser. B. 5, 123, 1927.
- Plagiognathus albifacies*  
nKnight, Proc. Biol. Soc. Wash. 40, 11-12, 1927.
- Plagiognathus atricornis* 9-10, *carninatus* 10-11  
nKnight, Ent. News 37, 1926.
- Plagiognathus carneolus*  
nKnight, Proc. Biol. Soc. Wash. 40, 10-11, 1927.
- Plagiognathus crataegi*  
nKnight, Ent. News 40, 264-265, 1929.
- Plagiognathus crocinus*  
nKnight, Proc. Biol. Soc. Wash. 40, 12, 1927.
- Plagiognathus dispar*  
Knight, Ent. News 37, 11, 1926.
- Plagiognathus flavescens*  
nKnight, Bklyn. Ent. Soc. B. 20, 33, 1925.
- Plagiognathus fuscoflavus* 267-268, *fuscipes* 268, *geminatus* 265, *gleditsiae* 265-266  
nKnight, Ent. News 40, 1929.
- Plagiognathus ilicis*  
nKnight, Ent. News 36, 305-306, 1925.
- Plagiognathus inopinus*, *intrusus*  
nKnight, Ent. News 37, 11-12, 1926.
- Plagiognathus luteus* 72-73, *negundinis* 263, *phoradendronae* 73-74  
nKnight, Ent. News 40, 1929.
- Plagiognathus politus*  
iStear, J. Ec. Ent. 18, 636, 1925.
- Plagiognathus salicicola*, *shepherdiae*  
nKnight, Ent. News 40, 69-71, 1929.
- Plagiognathus similis*  
Knight, Proc. Biol. Soc. Wash. 40, 12-13, 1927.
- Plagiognathus subovatus* 266-267, *tennellus* 73  
nKnight, Ent. News 40, 1929.
- Plagiognathus tiliae*  
nKnight, Can. Ent. 58, 252-253, 1926.
- Plagiolepis mactavishi*  
Illingworth, Assoc. Haw. Pineapple Canners Exp. Sta. B. 7, 10, 1926.
- Plagiomima abdominalis* 27, *alternata* 27, *anomala* 26, *auriceps* 28, *cognata* 27-28, *disparata* 26, *simillis* 27, spp. —key 25-26  
Aldrich, Trans. Amer. Ent. Soc. 52, 1926.
- Plagionotus speciosus*  
Peirson, Me. For. Ser. B. 5, 86-87, 1927.  
Petch & Armstrong, Quebec Soc. Protec. Plants R. 17, 75, 1925.
- Plagiophryxe* n. gen., *pecocensis*  
nTownsend, Ins. Insc. Mens. 14, 32-34, 1926.
- Plagiotrochus suberi*  
Ryan, Cal. Dept. Agr. Mo. B. 17, 429, 1928.  
nWeld, PUSNM 68; 10, 47-49, 1926.
- Plains false wireworm, *see* *Eleodes opaca*
- Planes boliviensis* 44, *minor* 44-45, *ron-danii* 14, *schildi* 15, *willistoni* 14  
nShannon, P.U.S.N.M. 69, Art. 9, 1926.
- Planiceps cupripennis*  
nBanks, Harvard. Biol. Lab.—Studies on Cuban Insects 1, 9-10, 1928.
- Planiceps hesperus*  
nBanks, Psyche 36, 327, 1929.
- Planiceps innotatus*  
nBanks, B. Harvard Mus. Comp. Zool. 67, 337, 1925.

**Plant Board—Central—Principles of quarantine**

Wallace, J. Ec. Ent. 22, 457-458, 1929.

**Plant Board—Eastern—Efficiency of pest control**

Headee, J. Ec. Ent. 22, 454-455, 1929.

**Plant Board—Southern**

Harned, J. Ec. Ent. 22, 456-457, 1929.

—J. Ec. Ent. 19, 609, 1926.

**Plant Board—Western—Inspection development**

Jacobsen, J. Ec. Ent. 22, 459-460, 1929.

**Plant diseases—Bacterial and fungous**

Tehon, Ill. Nat. Hist. Surv. B. 15, 173-283, 1924.

**Plant diseases, Insect borne, *see* Insects and plant diseases**

**Plant lice, *see* Aphides**

**Plant quarantine, *see* Quarantine, Plant**

**Plant quarantine and Control, Adm., Director of field activities**

iU. S. D. A. Misc. Pub. 47, 1929, 50 p.

**Plascosternum tumidum**

nVan Duzee, Pan-Pac. Ent. 6, 94-95, '29.

**Plastophora crawfordi, spatulata**

bSmith, Proc. Ent. Soc. Wash. 30, 105-108, 1928.

**Plateros columbiensis**

nBrown, Can. Ent. 61, 108-109, 1929.

**Plateumaris spp.—Key**

Schaeffer, Bklyn. Mus. Sci. B. 3, 123-125, 1925.

**Plathemis—Key to species**

bSeemann, J. Ent. & Zool. 19, 34, 1927.

**Plathypena scabra (Green clover worm)\***

biHill, U.S.D.A.B. 1336, 1925, 18 p.

**Platycampus victoria**

Viereck, Can. Ent. 57, 43, 1925.

**Platycerus aeneus 109-110, agassizi 108, depressus 107-108**

nVan Dyke, Pan-Pac. Ent. 4, 1928.

**Platycerus oregonensis**

Van Dyke, Pan-Pac. Ent. 4, 108, 1928.

**Platycheirus amplus**

nCurran, Amer. Mus. Nov. 247, 4-5, 1927.

**Platycheirus bigelowi 5-6, erraticus 7-8, groenlandicus 10-11**

nCurran, Amer. Mus. Nov. 247, 1927.

**Platycheirus hyperboreus**

ibFluke, Wis. Res. B. 93, 35-37, 1929.

**Platycheirus inversus, modestus**

nIde, Can. Ent. 58, 155-156, 1926.

**Platycheirus occidentalis**

nCurran, Amer. Mus. Nov. 247, 9-10, 1927.

**Platycheirus quadratus**

ibFluke, Wis. Res. B. 93, 37, 1929.

**Platycheirus scamboides**

nCurran, Amer. Mus. Nov. 247, 6-7, 1927.

**Platycheirus spp.**

Curran, Amer. Mus. Nov. 247, 1927, 13 p.

**Platycoelostomini—n. tribe**

nMorrison, Proc. Biol. Soc. Wash. 40, 102, 1927.

**Platyderides—North America**

Brown, Can. Ent. 60, 10-21, 1928.

**Platyedra gossypiella**

King, Internat. Cong. Ent. 4, Tr. 2, 90-93, 1929.

McDonald, Tex. Com. Agr. R. 20, 27, 1927.

**Platygaster affinis, anura**

nFouts, Proc. Ent. Soc. Wash. 27, 94-95, 1925.

**Platygaster distincta, exiguae**

nFouts, Proc. Ent. Soc. Wash. 28, 175-176, 1926.

**Platygaster filicaudis**

nFouts, Proc. Ent. Soc. Wash. 27, 95, 1925.

**Platygaster flavitarsis**

nFouts, Proc. Ent. Soc. Wash. 28, 176-177, 1926.

**Platygaster herricki**

Hill, J. Agr. Res. 36, 155, 1928.

**Platygaster heimalis**

biHill, J. Agr. Res. 32, 261-275, 1926.

Hill, J. Agr. Res. 36, 154, 1928.

Leiby, Ann. Ent. Soc. Amer. 19, 294, 1926.

**Platygaster kalmiae 95-96, minutissima**

96, nigricoxa 147-148, oenone 149, pallida 148-149, rufidens 97, scutellator 96-97, signata 97-98, striatifrons 98, tacita 98

nFouts, Proc. Ent. Soc. Wash. 27, 1925.

**Platygaster variabilis**

Leiby, Ann. Ent. Soc. Amer. 19, 295-299, 1926.

**Platygaster vernalis**

Hill, J. Agr. Res. 36, 155, 1928.

Leiby, Ann. Ent. Soc. Amer. 19, 295, 1926.

**Platykula**

niHuber, P. U. S. N. M. 70; 14, 106, 1927.

**Platymetopius diabolus**

nVan Duzee, Proc. Cal. Acad. Sci. ser. 4; 14, 413-414, 1925.

**Platymetopius frontalis**

Beckwith, Amer. Cranberry Assoc. Proc. 58; 15, 1928.

Dobrosky, Am. Cranberry Assoc. Proc. 58, 15, 1928.

**Platymetopius limbatus**

nOsborn, Ann. Ent. Soc. Amer. 19, 343-344, 1926.

**Platymetopius loricatus**

Osborn, P. R. Dept. Agr. J. 13, 95, 1929.

**Platymetopius magdalensis**

Beckwith & Hutton, J. N. Y. Ent. Soc. 37, 426, 1929.

Dobrosky, Amer. Cranberry Assoc. Proc. 58, 7, 1928.

**Platymetopius pexatus, planus**

nVan Duzee, Proc. Cal. Acad. Sci. ser. 4; 14, 414-416, 1925.

**Platynota flavedana, labiosana, rostrana**

Bottimer, J. Agr. Res. 33, 818-819, 1926.

**Platynus prognathus**

nVan Dyke, Pan-Pac. Ent. 2, 119-120, 1926.

**Platypedia rufipes**

niDavis, J. N. Y. Ent. Soc. 34, 189, 1926.

**Platyperigea camina**

Barnes & Benjamin, Pan-Pac. Ent. 2, 109-110, 1926.

**Platyphylax sp.**

Needham & Christenson, Utah B. 201, 23, 1927.

**Platyptilia carduidactyla**

iEssig, Insects of Western No. Amer. 1926, 712-713.

**Platyptilia punctidactyla**

Day, Proc. Ent. Soc. B. C. 25, 14-15, 1928.

**Platyptilia washburnensis**

niMcDunnough, Can. Ent. 61, 269, 1929.

**Platysamia cynthia**—Sex attraction

Rau & Rau, Tr. Acad. Sci. St. Louis 26, 121-138, 1929.

**Platytoxopoda, n. gen., bequaerti**

nCurran, Amer. Mus. Nov. 339, 9-10, 1929.

**Platytyrellus bivittis**

nKnight, Ent. News 40, 192, 1929.

**Platytyrellus borealis** 192, **concisus** 190-191, **eremicola** 189-190, **nigripilus** 189, **rubroscutellatus** 191-192

nKnight, Ent. News 40, 1929.

**Platytyrellus zonatus**

nKnight, Can. Ent. 58, 254-255, 1926.

**Platyura angustata** 34, **equalis** 35, **nigribarba** 34-35; niVan Duzee, Cal. Acad. Sci. Proc. 17; 2, 1928.**Plaxopsis roseogaster**

nBrues, Proc. Amer. Acad. Arts & Sci. 61, 233-234, 1926.

**Plea striata**

Clark, Bklyn. Ent. Soc. B. 20, 186, 1925.

**Plea striola**

Bare, Ann. Ent. Soc. Amer. 19, 97-98, 1926.

Hungerford, Bklyn. Ent. Soc. B. 23, 132, 1928.

**Plebeius melissa**

Comstock, So. Cal. Acad. Sci. B. 27; 2, 62-66, 1928; B. 28, 24, 1929.

niGunder, Can. Ent. 59, 281-282, 1927.

**Plebeius monticola**

Gunder, Ent. News 36, 195, 1925.

**Plebeius saepiolus**

nGunder, Can. Ent. 59, 282, 1927.

**Plecia gen. 12-13, amagua** 13-14, **kudiella** 14, **kuznetzovi** 15, **obsitula** 15-16, **redempta** 14-15, **refracta** 14

niCockerell, P.U.S.N.M. 68, Art. 5, 1925.

**Plecoptera**

ibiFrison, Ill. Nat. Hist. Surv. B. 18, 345-409, 1929.

Macnamara, Can. Ent. 58, 53-54, 1926.

Neave, Contr. Can. Biol. & Fish. 4, 159-173, 1926.

Needham & Claasen, Monog. Plecoptera, 1925, 297 p. (Thomas Say Found. v. 2).

bSeeman, J. Ent. & Zool. 19, 52-53, 1927.

- Plectops pruinosa*  
nMalloch, Proc. Ent. Soc. Wash. 29, 91-92, 1927.
- Plectrothrips impatiens*  
nHood, Psyche 32, 61, 1925.
- Plectura spinicauda*  
Hardy & Preece, Pan-Pac. Ent. 3: 1, 39-40, 1926.
- Pleistodontes froggatti*  
Swezey, J. Ec. Ent. 19, 717, 1926.
- Plemyria delicata*  
nDyar, Ins. Insc. Mens. 14, 187, 1927.
- Plenaschopsis* n gen., 341-342, pilosis-quama 347-348; nBlaisdell, Proc. Cal. Acad. Sci. Ser. 4, 14, 14, 1925.
- Pleocoma behrensi*  
Davis, Pan-Pac. Ent. 1, 110, 1925.
- Plesiomma atrum*  
nBromley, Psyche 36, 45, 1929.
- Pleisomma salti*  
nBromley, Ent. Soc. Amer. Ann. 22, 277, 1929.
- Plesiothrips amblycauda, octarthrus*  
nHood, Psyche 32, 52-53, 1925.
- Pleurigona* n. gen., curvinervis  
nMalloch, PUSNM 74; 6, 16-17, 1929.
- Pleurotropis bucculatricis*  
nGahan, Psyche 34, 171-173, 1927.
- Pleurotropis nawaii*  
biMuesebeck & Dohanian, U.S.D.A.B. 1487, 31, 1927.
- Pleurotropis* spp.  
ibnTaylor, Ent. Amer. 10, 69, 1929.
- Pleurotropis tarsalis*  
Gahan, P.U.S.N.M. 71, Art. 4, 26, 1927.  
Muesebeck & Dohanian, U.S.D.A.B. 1487, 31, 1927.
- Pliny the elder—Entomology of*  
bWeiss, J. N. Y. Ent. Soc. 34, 355-359, 1926.
- Plocamaphis braggii*  
niPalmer, Ann. Ent. Soc. Amer. 22, 1-3, 1929.
- Plochinomus amandus*  
Blatchley, Can. Ent. 57, 161, 1925.
- Plochicoris comptulus*  
nDrake & Harris, Proc. Biol. Soc. Wash. 39, 36-37, 1926.
- Plodia interpunctella* (Indian-meal moth)\*
- Back & Cotton, U.S.F.B. 1260, rev. Dec. 1925, 19-20.
- Dunham, Am. Bee J. 69, 327, 396, 1929.
- Drake, Coop. Manager & Farm. 14: 9, 47, 1925.
- Frison, Ann. Ent. Soc. Amer. 19, 228, 1926.
- iGibson & Twinn, Can. Dept. Agr. B. 112, 28-29, 1929.
- iGuyton, Pa. Dept. Agr. Gen. B. 432, 6-7, 1927.
- bHagan, J. Econ. Ent. 22, 900-909, 1929.
- Hamlin & Reed, J. Ec. Ent. 20, 408, 1927.
- Taylor & Philp, Cal. C. 284, 46, 1925.
- Ploiaria albipennis*  
nMcAtee & Malloch, P. U. S. N. M. 67, Art. 1, 60, 1925.
- Ploiaria aptera* 66, *bispina* 59, *brunnea* 54, *carolina* 58, *denticauda* 63, *floridana* 59, *granulata* 57, *gundlachi* 56, *hirticornis* 64, *macrophthalma* 53, *marginata* 65, *pilicornis* 61, *punctipes* 62, *reticulata* 63, *rufoannulata* 57, *setulifera* 55, *sicaria* 55, *similis* 62, spp.—Key 50, *umbrarum* 60, *uniseriata* 61, *varipennis* 56
- niMcAtee & Malloch, P.U.S.N.M. 67, Art. 1, 1925.
- Ploiariinae*—Revision of American  
biMcAtee & Malloch, P.U.S.N.M. 67, Art. 1, 1925, 153 p.
- Plum blister mite, *see* *Eriophyes padi*
- \*Plum curculio, *see* *Conotrachelus nenuphar*
- \*Plum gouger, *see* *Anthonomus scutellaris*
- Plum insects  
Crosby, et al, N.Y.C.B. 498, 67-68, 1929.  
Mickel & Peterson, Minn. Hort. 54, 267-272, 1926.
- Plum insects—Gassing  
Reburn, Better Fruit 19, 9, 1925.
- Plum web-spinning sawfly, *see* *Neurotoma inconspicua*
- Plum moths, *see* *Pterophoridae*
- Plutella maculipennis* (Diamond-back moth)\*
- iBrittain, N. S. Dept. Nat. Resource B. 12, 77-78, 1927.
- Britton, Conn. B. 285, 171, 1927.

**Plutella maculipennis** *Cont'd*

iCaesar, Ont. Dept. Agr. B. 325, 34-35, 1927.

Compton, Ill. C. 297, 12, 1925.

iGibson & Twinn, Can. Dept. Agr. B. 112, 59, 1929.

Huckett, N. Y. Geneva C. 80, 9-10, 1925.  
Jardine, Oreg. Bien. R. 1924-26, 102-103, 1926.

King, Sci. Agr. 9, 385, 1929.

Mote, Oreg. C. 65, 26, 1926.

Petch & Armstrong, Quebec Soc. Protec. Plants R. 17, 73, 1925.

Spittall, Proc. Acad. Ent. Soc. 10, 64, 1925.

iiWatson, Fla. Dept. Agr. Quar. B. 39, 70-71, 1929.

**Pluyelophoga** spp.

iStahl & Scaramuzza, Trop. Pl. Res. Found. B. 19, 15, 1929.

**Pneumonyssus congoensis**

nbEwing, Proc. Ent. Soc. Wash. 31, 129-130, 1929.

**Pneumonyssus foxi**

biGay & Branch, Amer. J. Trop. Med. 7, 49-55, 1927.

Helwig, Amer. J. Pathol. 1, 389-395, 1925.

**PNYXIA scabiei** (Potato scab gnat)

iGui, Ohio Veg. Gr. Assoc. Proc. 13, 24-31, 1928.

bGui, J. Ec. Ent. 22, 397-399, 1929.

Gui, Ohio B. 431, 75-76, 1929.

Williams, Ohio B. 417, 48, 1928.

**Poanes viator**

Bell, Brklyn. Ent. Soc. B. 21, 202, 1926.

**Pococera nepomuca**

niSchaus, Annals Carnegie Mus. 16; 1, 16, 1925.

**Podabrus altus**

nFall, Ent. Amer. 8, 98-99, 1927.

**Podabrus ambiguus** 73-74, **appendiculatus** 74-75, **brevicollis** 79, **citrinus** 100-101; nFall, Ent. Amer. 8, 1929.

**Podabrus comes**

Fall, Pan-Pac. Ent. 2, 152, 1926.

**Podabrus confraternus** 84, **excursus** 91, **extricatus** 88-89

nFall, Ent. Amer. 8, 1927.

**Podabrus falli**

nHopping, Can. Ent. 61, 252-253, 1929.

**Podabrus fenestratus**

nFall, Ent. Amer. 8, 88-100, 1927.

**Podabrus fissilis**

nFall, Pan-Pac. Ent. 2, 153-154, 1926.

**Podabrus fulvus** 85, **furtivus** 102, **gracilis**

96-97, **heteronychus** 101, **illex** 76-77, **instabilis** 97, **knobeli** 75-76, **limatus** 78-79, **longicornis** 82-83, **modulatus** 88, **moestus** 97-98, **muliebris** 86, **obscurivittatus** 95, **occipitalis** 87, **probus** 100, **sierrae** 84, spp. 65-103, **tenuis** 85-86; nFall, Ent. Amer. 8, '27.

**Podabrus tetragonoderus**

nFall, Pan-Pac. Ent. 2, 152-153, 1926.

**Podabrus viduus**

nFall, Ent. Amer. 8, 85, 1927.

**Podalonia violaceipennis**

Bequaert, Brooklyn Ent. Soc. B. 24, 220-221, 1929.

**Podalonia**

Fernald, P.U.S.N.M. 7: 9, 1928, 39 p.

**Podisus maculiventris** (Spined soldier bug)<sup>a</sup>

iLuginbill, U.S.D.A. Tech. B. 34, 85, 1928.

**Podogaster cactorum**

nCushman, P.U.S.N.M. 72; 13, 19-20, 1928.

**Podomyia langi**, **ocellaris**

nCurran, Amer. Mus. Nov. 246, 9-10, 1927.

**Podops cinctipes**

Davis, Brklyn. Ent. Soc. B. 20, 147, 1925.

**Podosesia syringae** (Lilac borer)\*

iBritton & Zappe, Conn. B. 292, 158, 1927.

iSeaver, Tree Talk 8: 4, 13-14, 1928.

Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 42, 1926.

**Podothrips semiflavus**

Watson, Fla. Ent. 9, 58, 1926.

**Poduroides** n. gen., **bovingi**

niMann, Proc. Ent. Soc. Wash. 28, 151-153, 1926.

**Poecilocapsus lineatus** (Four lined plant bug)\*

Bailey, Potato News B. 2, 34, 1925.

iBrittain, N. S. Dept. Nat. Res. B. 12, 59-60, 1927.

iBritton & Zappe, Conn. B. 292, 172-173, 1927.

M. W., Florists' Rev. 58, 33, 1926.

- Spittall, Proc. Acad. Ent. Soc. 10, 72-73, 1925.
- Watson, Ohio Biol. Surv. B. 16, 28, 1928.
- Poecilognathos henicospili**  
Rohwer, Proc. Ent. Soc. Wash. 31, '29.
- Poecilognathos thwaitesii**  
Clausen, Proc. Ent. Soc. Wash. 31, 67-79, 1929.
- Poecilothrips lupini**  
nMoulton, Pan-Pac. Ent. 5, 133-134, 1929.
- Pogonomyrmex californicus**  
nSmith, Ann. Ent. Soc. Amer. 22; 546-547, 1929.
- Pogonomyrmex occidentalis**  
Buckell, Proc. Ent. Soc. B.C. 24, 30, 1927.  
Essig, Insects of Western No. Amer. 1926, 862.
- Poison bait**  
Britton, Conn. Pomol. Soc. Proc. 34, 52-54, 1925.  
iChipman, Chem. Eng. Co., N. Y., Poison Bait, 1925.  
iChipman, Chem. Eng. Co., Inc., Poison Bait, 1926.  
Crumb, U.S.D.A. Tech. B. 88, 158, 1929.  
Lyle, Miss. St. Pl. Bd. Q. B. 7; 1, 2-3, 1927.  
Thomas, U.S.F.B. 1561, 6, 1928.  
iThompson, Oreg. C. 70: 1-6, 1926.  
Todd, J. Ec. Ent. 20, 844-845, 1927.  
Vickery & Browne, Handbk. Pest Control, Sec. 6, 1-7, 1929.  
Wallace & Anders, Miss. B. 231, 13-14, 1925.  
Wedgworth & Anders, Miss. C. 62, 1925, 3 p.
- Poison bait—Apple**  
iMore & Wilcox, Oreg. C. 79, 1927, 8-13.  
Peterson, J. Ec. Ent. 18, 181, 1925.
- Poison ivy insects**  
Criddle, Can. Ent. 59, 99, 1927.  
Felt, N. Y. St. Mus. B. 274, 169, 1928.  
Tissot, Fla. Ent. 12, 1-2, 1928.
- Poisoned bran mash**  
Gardner, Me. Ext. C. 89, 1925.  
Gibson & Twinn, Can. Dept. Agr. B. 112, 27, 1929.  
Henderson, New Reclamation Era, 20, 173, 1929.  
Mote & Wilcox, Oreg. C. 79, 17-18, 1927.
- Ruggles, Bur. Farm. 4; 11, Minn. Farm. Bur. Sec. July 1929, 19.
- Schureman, Cal. Cit. 11, 352, 1926.
- Snapp, U. S. F. B. 1557, 41, 1928.
- Whitehead, Ida. Ext. B. 61, 5, 1925.
- Wright, Fla. Grower, 37; 9, 33, 1929.
- Poisoning—Copper from plant juices**  
DeLong, Amer. Fruit Grow. Mag. 49; 9, 17, 1929.
- Poisonous dusts—Electrical charges**  
Herman, Quebec Soc. Protec. Plants R. 21, 12, 1929.
- Poisonous insects**  
Baerg, Ann. Ent. Soc. Amer. 18, 471-478, 1925.  
bBaerg, Internat. Cong. Ent. 4, Tr. 2, 418-438, 1929.  
Bequaert, Harvard Inst. Trop. Biol. & Med. Cont. 4, 190-193, 1926.  
iBeyer, Nations Health 8, 408-411, 1926.  
Bogen, J. Am. Med. Assoc. 86, 1194-1196, 1926.  
iChamplain, Nat. Mag. 6, 37-40, 1925.  
Ewing, U. S. Naval Med. B. 26, 696-702, 1928.  
Gray, Ark. B. 203, 35-37, 1925.  
Hoffman, J. Am. Med. Assoc. 88, 145-146, 1927.  
Maddox, Hygeia 4, 689, 1926.
- Poisons—Antidotes**  
Watson, Fla. Dept. Agr. Quar. B. 39: 3, 214-215, 1929.
- Poisons—Economic**  
Gray & Thompson, Cal. Dept. Agr. Sp. Pub. 58, 1925, 50 p.  
iMarshall et al., Cal. Dept. Agr. Sp. Pub. 66, 1926, 37 p.; 75, 1927, 66 p.; 88, 1928, 76 p.; 94, 78 p., 1929.  
Womack, Blue Anchor 6: 11, 6, 32, 1929.  
———, Cal. Dept. Agr. Mo. B. 15: 1-6, 61, 1926.  
———, Cal. Dept. Agr. Sp. Pub. 81, 1928, 24 p.
- Pokabius bilabiatus**  
Blake, Ill. Biol. Monog. 10: 4, 83, 1926.  
"Poko", see *Peridroma margaritosa*
- Polauchenia, n. gen., biannulata, protentor**; McAtee & Malloch, P.U.S.N.M. 67; 1, 47-48, 1925.



- Polemium suturalis**  
nBlatchley, Can. Ent. 60, 63, 1928.
- "Polia" buscki**  
nBarnes & Benjamin, Pan-Pac. Ent. 4, 5-6, 1927.  
Barnes & Benjamin, Brooklyn Ent. Soc. B. 20, 192, 1925.
- Polia legitima (Striped garden caterpillar)\***  
Crumb, U.S.D.A. Tech. B. 88, 116-119, 1929.
- Polia luteimacula**  
nBarnes & Benjamin, Pan-Pac. Ent. 2, 16-17, 1925.
- Polia meditata**  
ICrumb, U.S.D.A. Tech. B. 88, 119-123, 1929.
- Polia renigera (Bristly cutworm)\***  
ICrumb, U.S.D.A. Tech. B. 88, 123-128, 1929.
- Polia stricta**  
Barnes & Benjamin, Pan-Pac. Ent. 2, 12-13, 1925.
- Polia wyatti**  
nBarnes & Benjamin, Pan-Pac. Ent. 2, 111-112, 1926.
- Polistes annularis (Jack Spaniard)**  
Rau, Brooklyn Ent. Soc. B. 23: 230-235, 1928.  
iRau, Ecology, 10, 191-196, 1929.  
Savin, Nat. Hist. 25, 81-86, 1925.
- Polistes mellifica**  
Barber, Ent. News 39, 17, 1928.
- Polistes pallipes (Common wasp)**  
Rau, St. Louis Acad. Sci. Tr. 25, 190, 1927.  
Rau, Brooklyn Ent. Soc. B. 23: 230-235, 1928.  
Rau, Psyche 35, 151-156, 1928.  
Rau, Can. Ent. 61, 25-30, 1929.  
iRau, Ecology 10, 196-197, 1929.  
Rau, Ent. News 40: 226-232, 1929.  
Rau, Ent. News 40: 256-259, 1929.  
Rau, Psyche 36, 34-36, 1929.
- Polistes rubiginosis**  
iRau, Ecology 10, 199-200, 1929.  
Rau, Ent. News 40, 7-13, 1929.
- Polistes sp. (Paper wasps) in bird houses**  
McAtee, Proc. Ent. Soc. Wash. 31, 136, 1929.
- Polistes spp.—Habits**  
Duncan, Pan-Pac. Ent. 5, 90, 1928.  
Rau, Ecology 10, 191-200, 1929.  
iRau, Psyche, 35, 147-150, 1928.  
Van Dyke, Pan-Pac. Ent. 1, 143, 1925.
- Polistes spp.—Honey gathering**  
iRau, Biol. B. 54, 503-519, 1928.
- Polistes variatus**  
iRau, Psyche 35, 151-152, 1928.  
iRau, Ecology 10, 197-198, 1929.
- Polistiopsis mima**  
Townsend, N. Y. Ent. Soc. J. 36, 84, 1928.
- Polistiphaga, n. gen.**  
Cushman, J. Wash. Acad. Sci. 15, 391-392, 1925.
- Polistiphaga zonata**  
nCushman, P.U.S.N.M. 74; 16, 56-57, 1929.
- Polistes themistockles**  
Barnes & Benjamin, Ent. News 37, 269-270, 1926.
- Pollen—Digestion by Apis**  
ibWhitcomb & Wilson, Wis. Res. B. 92, 1929, 27 p.
- Pollen—Utilization by honeybee.**  
Parker, Iowa St. Hort. Soc. Tr. 59, 303, 1925.
- Pollenia rudis (Cluster fly)\***  
Carr, U. S. Naval Med. B. 25, 533, 1927.  
DeCoursey, Ann. Ent. Soc. Amer 20, 368-384, 1927.  
Felt, N. Y. St. Mus. B. 274, 16, 1928.  
Gibson & Twinn, Can. Dept. Agr. B. 112, 64-65, 1929.  
McDaniels, Mich. C. B. 106, 11, 1927.  
iTao, Amer. J. Hyg. 7, 754, 1928.
- Pollenia sp.**  
Shannon, Proc. Ent. Soc. Wash. 28, 136, 1926.
- Pollination and honey bee**  
Adams, S. Dak. R. 41, 19, 1929.  
Auchter, N. J. St. Hort. Soc. Proc. f. 1925, 140-141.  
Brittain, N. S. Fr. Grow. Assoc. R. 65, 65-67, 1929.  
iDavis, Purdue Univ. Ext. B. 129, 4-7, 1925.  
DeOng, Calif. C. 297, 17-22, 1925.

- iDietz, Ind. Conserv. Com. Div. Ent.  
Pub. 52, 1925, 20 p.
- Johnston, N. Y. Hort. Soc. R. 57, 196-199, 1927.
- Chase, Wash. St. Hort. Assoc. Proc. 23, 49-52, 1927.
- Luce, Wash. St. Hort. Assoc. Proc. 23, 44-48, 1927.
- McDaniels & Heinicke, N.Y.C.B. 497, 18-20, 1929.
- bliSchuster, Ore. B. 212, 23, 1925.
- Sears, Mass. Fr. Grow. Assoc. R. 34, 233-239, 1928.
- Polyamius aestuarium, montanus**  
niDeLong & Slesman, Ent. Soc. Amer. Ann. 22, 101-102, 1929.
- Polyaspis lamellipes**  
Miller, Ohio B. 386, 135-136, 1925.
- Polybiomyia bellardii** 59-60, engelhardtii 60-61, n. gen.—Key to spp. 56-57, macquarti 59, sayi 61, schwarzi 57-58  
nShannon, Ins. Insc. Mens. 13, 1925.
- Polycesta manni**, spp.—Key  
nFisher, P.U.S.N.M. 65; Art. 9, 7,8,1925.
- Polycheria osborni**  
iSkogsberg & Vansell, Cal. Acad. Sci. Proc. 17; 10, 267-295, 1928.
- Polychrosis aemulana, blandula**  
niHeinrich, U.S.N.M. B. 132, 94, 96-97, 1926.
- Polychrosis botrana**  
Dohanian, Psyche 34, 146-156, 1927.  
bStellwaag, Internat. Cong. Ent. 4, Tr. 2, 537-542, 1929.
- Polychrosis cyclopiana** 97, monotropana 91, spp.—Key 88-89  
Heinrich, U.S.N.M. B. 132, 1926.
- Polychrosis viteana** (Grape berry moth)\*  
iCaesar, Ont. Dept. Agr. B. 325, 47, 1927.  
Dozier, Del. B. 158, 22, 24, 1928.  
IDozier & Butler, J. Ec. Ent. 22, 132-136, 1929.
- ilDozier & Butler, Peninsula Hort. Soc. Tr. 42, 118-124, 1929.
- IEyer & McCubbin, Pa. Dept. Agr. Gen. B. 433, 7-10, 1926.  
G. F. E., Rur. N. Y. 85, 952, 1926.  
Gentner, Mich. Hort. Soc. R. 54, 190-192, 1925.
- iGentner, Mich. Sp. B. 148, 3-10, 1925.
- iGibson & Twinn, Can. Dept. Agr. B. 112, 57-58, 1929.
- Hartzell, J. Ec. Ent. 22, 126-132, 1929.
- Ross, Farm. Advoc. 60, 417, 1925.
- Ross, Ont. Fruit Grow. Assoc. R. 56, 58, 1925.
- Ross, Ont. Ent. Soc. R. 56, 17-19, 1926.
- Runner, Ohio St. Hort. Soc. Proc. 59, 31-33, 1926.
- Sears, Productive Small Fruit Culture, ed. 2, 339-340, 1925.
- Thatcher, N. Y. Gen. R. 45, 41, 1926.
- Polycyrtidea limitis**  
nCushman, P.U.S.N.M. 74; 16, 52-53, 1929.
- Polycyrtus neglectus**  
nCushman, P.U.S.N.M. 67, Art. 23, 5-6, 1926.
- Polyembryony**  
Patterson, Quart. Rev. Biol. 2, 399-426, 1927.
- Polyergus lucidus**  
Haskins, N. Y. Ent. Soc. Jour. 37, 65-66, 1929.
- Polyergus rufescens**  
Smith, N. Y. Ent. Soc. Jour. 36, 329-333, 1928.
- Polyergus samurai**  
nWheeler, Amer. Mus. Nov. 259, 4, 1927.
- Polyglytodes flavocostatus**  
niHaviland-Brindley, Zoologica, N. Y. 6, 255, 1925.
- Polygonia comma**  
Conn. B. 265, 337, 1925.
- Polygonia interrogationis**  
Clark, Psyche 36, 32, 1929.
- Polygonia satyrus**  
Gunder, So. Cal. Acad. Sci. B. 26; 53, 1927.
- Polygraphus hoppingi**  
nSwaine, Can. Ent. 57, 51, 1925.
- Polygraphus rufipennis**  
Peirson, Me. For. Serv. B. 5, 121, 1927.  
ISimpson, Can. Ent. 61, 146-151, 1929.
- Polyhymno acaciella**  
Bottimer, J. Agr. Res. 33, 813, 1926.
- Polylepta modesta**  
niVan Duzee, Cal. Acad. Sci. Proc. 17; 2, 43, 1928.

- Polymedon dilaticosta**  
nVan Duzee, Ann. Ent. Soc. Amer. 20, 124-125, 1927.
- Polymedon nigricornis**  
niVan Duzee, P.U.S.N.M. 74; 10, 53-54, 1928.
- Polymedon nigrifemoratus**  
nVan Duzee, Ann. Ent. Soc. Amer. 20, 125-126, 1927.
- Polymedon nitidus**  
nVan Duzee, Ann. Ent. Soc. Amer. 20, 125, 1927.
- Polymedon notatus** 56-57, **partitus** 54-55, **rubiginosus** 55-56  
niVan Duzee, P.U.S.N.M. 74; 10, 1928.
- Polymedon spp.**—Table of males  
Van Duzee, Ann. Ent. Soc. Amer. 20, 123-124, 1927.
- Polymedon transversus**  
niVan Duzee, P.U.S.N.M. 74; 10, 52-53, 1928.
- Polymera microstictula**  
nAlexander, J. N. Y. Ent. Soc. 37, 404-405, 1929.
- Polymera prolixicornis**  
nAlexander, J. N. Y. Ent. Soc. 35, 269, 1927.
- Polymera rogersiana**  
nKnowlton, Can. Ent. 61, 18, 1929.
- Polymera superba**  
nAlexander, J. N. Y. Ent. Soc. 37, 405, 1929.
- Polymerus americanus** 253, **balli** 250, **brevirostris** 246-247, **brevis** 249, **chrysopsis** 245-246  
nKnight, Can. Ent. 57, 1925.
- Polymerus clandestinus**  
nBlatchley, Ent. News 37, 164-165, 1926.
- Polymerus delongi**  
nKnight, Can. Ent. 57, 252-253, 1925.
- Polymerus diffusus**  
Knight, Can. Ent. 58, 165, 1926.
- Polymerus flaviloris** 251, **flavocostatus** 165-166  
nKnight, Can. Ent. 58, 1926.
- Polymerus flavocuneatus**  
Knight, Can. Ent. 58, 168, 1926.
- Polymerus gracilentus**  
nKnight, Can. Ent. 57, 249-250, 1925.
- Polymerus nigrigulis**  
nKnight, Can. Ent. 58, 166, 1926.
- Polymerus nubilipes**  
nKnight, Can. Ent. 57, 248, 1925.
- Polymerus proximus** 166, **relativus** 165  
nKnight, Can. Ent. 58, 1926.
- Polymerus robustus** 251-252, **rubrocuneatus** 247  
nKnight, Can. Ent. 57, 1925.
- Polymerus rubroornatus** 164, **sericeus** 167  
Knight, Can. Ent. 58, 1926.
- Polymerus severini** 247-248, **tumidifrons** 248-249  
nKnight, Can. Ent. 57, 1925.
- Polynema pratensiphaga**  
niWalley, Can. Ent. 61, 193-194, 1929.
- Polynema saga**  
Lawson, Ent. Soc. Amer. Ann. 22, 130, 1929.
- Polynema striaticorne**  
ibBaldur, Annals Ent. Soc. Amer. 21, 419-435, 1928.
- \*Polyphemus moth**, *see* **Telea polyphemus**
- Polyphylla** genus—Review  
Fall, Proc. Ent. Soc. Wash. 30, 30-35, 1928.
- Polyphylla decemlineata**  
Robertson, B. C. Dept. Agr. R. 22, Q25, 1928.
- Polyphylla rufescenta**  
niTanner, Ann. Ent. Soc. Amer. 21, 276-277, 1928.
- Polyphylla speciosa** 70-71, **spp.**—Key 34-35  
Fall, Proc. Ent. Soc. Wash. 30, 1928.
- Polyphylla uteana**  
niTanner, Ann. Ent. Soc. Amer. 21, 276, 1928.
- Polyplax alaskensis**, **spp.**  
nEwing, Proc. Ent. Soc. Wash. 29, 118-119, 1927.
- Polyporothrips**, **n. gen.**, **longipilosus**  
nWatson, Fla. Ent. 10, 61-62, 1927.
- Polyporus gilvus**  
Hirt, N. Y. St. Col. For. Tech. Pub. 22, 1928, 47 p.
- Polyrhachis simplex**  
Hingston, Instinct & Intelligence. 1029, 111, 141, 171-175.

- Polysphincta eximia*  
Cushman, Proc. Ent. Soc. Wash. 28, 34, 1926.
- Polytrichophora canora, luteicornis*  
nCresson, Tr. Amer. Ent. Soc. 55, 165-166, 1929.
- \**Pomace fly*, see *Drosophila melanogaster*
- Pomphopoea anea*  
Snapp, U.S.F.B. 1557, 37, 1928.
- Pomphopoea sayi* (Say's blister beetle)  
Britton, Conn. B. 305, 762, 1929.
- Pompiloides agnema*  
nBrimley, Elisha Mitchell Sci. Soc. J. 43, 204, 1928.
- Pompilus quadripunctatus*  
Hingston, Instinct & Intelligence, 1929, 201-202.
- Pond lily leaf beetle, see *Galerucella nymphaeae*
- Ponderous pine borer, see *Ergates spiculatus*
- Ponera inesorata*  
Smith, Ent. News 38, 309, 1927.
- Ponera kalakauea*  
Illingworth, Assoc. Hawaiian Pine-apple Cannery Exp. Sta. B. 7, 11, 1926.
- Ponera leae, minor*  
niWheeler, Amer. Acad. Arts & Sci. Proc. 62; 4, 130-132, 1927.
- Ponera opaciceps*  
Smith, Ent. News 38, 308, 1927.
- Pontania bozemani*  
Cooley, Mont. B. 170, 30, 1925.  
i de Gryse, Can. Dept. Agr. Ent. Br. Pam. 47, n.s. rev. ed. 16, 1925.
- Pontania mariana* 91-92, marlatti 93, pepii 95-96, popuella 93-94  
niRoss, Ent. Soc. Wash. Proc. 31, 1929.
- Pontia monuste* (Large cabbage butterfly)  
Ball & Stone, Science 68, 110-111, 1928.  
Johnson, Psyche, 36, 92, 1929.  
Watson, Fla. Dept. Agr. Quar. B. 39: 3, 73, 1929.
- Pontia napi* (Potherb butterfly)  
Gunder, Ent. News 36, 197-198, 1925.  
Nakahara, Ins. Insc. Mens. 14, 47, 1926.
- Pontia protodice* (Southern cabbage worm)\*  
iWatson, Fla. Dept. Agr. Quar. B. 39: 3; 72-73, 1929.
- ‡*Pontia rapae* (Imported cabbage worm)\*  
Beaulne, Quebec Soc. Protec. Pl. R. 20; 85, 1928.
- iBrittain, N. S. Dept. Nat. Resource B. 12, 77, 1927.
- iCaesar, Ont. Dept. Agr. B. 325, 30-32, 1927.
- iCompton, Ill. C. 297, 4-5, 1925.  
Compton, Ill. Hort. Soc. Tr. 59, 306-308, 1926.  
Compton, Ill. Hort. Soc. Tr. 60, 410-412, 1927.
- iDavault, Quebec Soc. Protec. Pl. R. 18, 126-128, 1925-26.
- bDavault, Scientific Agr. 6, 367-369, '26.  
Gibson & Twinn, Can. Dept. Agr. B. 112, 59, 1929.
- Gilliatt, Ont. Ent. Soc. R. 59, 13, 1929.  
Huckett, N. Y. Geneva C. 80, 11, 1925.  
Jones & Ernst, Cal. Ext. C. 11, 32, 1927.  
Ladd, N. Y. C. Ext. B. 35, 22-23, 1929.  
Langford, Colo. Ext. News Notes 819, 1925.
- MacLeod, Penn. St. Col. Ext. C. 122, 23, 1929.
- McHatton, et al, Ga. Ext. B. 257, rev., 24, 1926.
- Mote, Oreg. C. 65, 25, 1926.
- Nakahara, Brklyn. Ent. Soc. B. 20, 222, 1925.
- iPettit, Mich. Sp. B. 183, 19, 1929.
- Ripon, Pac. Rur. Press, 118: 607, 1929.
- Rogers, Brooklyn Ent. Soc. B. 20, 228, 1925.
- iRuhmann, B. C. Dept. Agr. C. New Hort. Ser. 37, 1926, 4 p.
- Spittall, Proc. Acad. Ent. Soc. 10, 67, 1925.
- Talbert, Amer. Prod. Grow. 4; 8, 8, 1929.
- iTreherne, B. C. Dept. Agr. C. 37 (New Hort. Series), 4 p.
- bTwinn, Ont. Ent. Soc. R. 55, 75-80, 1925.
- Popillia japonica* (Japanese beetle)\*  
Bailey, Comm. Agr. Vt. Bien. R. 13, 60-61, 1926.  
Baxter, Florists Exch. 69: 201, 1928.

*Popillia japonica* *Cont'd*

- Berly, S. C. C. 32, 19, 1924.  
 iBolles, Enemies & Pests of Dahlias, 1926, 42 p.  
 iBritton, Conn. B. 285, 178-179, 244-246, 1927.  
 Britton, Conn. Pomol. Soc. Proc. 36, 45-46, 1927.  
 Britton, N. J. Dahlia News, 5; 2, 11-12, 1929.  
 iBritton & Zappe, Conn. B. 292, 127, 128, 1927.  
 iBritton & Johnson, Conn. B. 294, 281-288, 1928.  
 Chambers, Wis. Hort. 18, 85, 1927.  
 iCory, Md. Ext. Serv. Inform. Cd. 20, 1928.  
 Cory, Peninsula Hort. Soc. Tr. 41, 80-82, 1928.  
 Dunlap, Amer. Flor. 72; 64, 13, 1929.  
 Duryee, N.J. Dept. Agr. R. 12, 7-8, '27.  
 Duryee, N. J. Dept. Agr. R. 13, 15-16, 1929.  
 Engelhardt, Brklyn. Ent. Soc. B. 22, 218, 1927.  
 iEyer & McCubbin, Pa. Dept. Agr. Gen. B. 433, 11-12, 1926.  
 iF. H., Rur. N. Y. 87, 1175, 1928.  
 iFelt, J. Ec. Ent. 20, 63-64, 1927.  
 iFelt, Tree Talk, 8: 2, 4-6, 1927.  
 Felt, N. Y. St. Hort. Soc. Proc. 73, 16, 1928.  
 Felt, Bartlett Tree Res. Lab. Radio Tree Talks I, 44-47, 1929.  
 Felt, Garden Chron. of Amer. 33, 367, 1929.  
 bFleming, N. J. B. 410, 1925, 29 p.  
 iFleming, J. Agr. Res. 34, 335, 1927.  
 Fleming, Nat. Nurserym. 36, 321, 326, 1928.  
 iFox, J. Ec. Ent. 20, 283-391, 1927.  
 Gallaher, U. S. Golf Assoc. Green Sec. B. 5, 173, 1925.  
 Gardner, U. S. Golf Assoc. Green Sec. B. 9, 155, 1929.  
 Goodwin, Fla. St. Pl. Bd. Mo. B. 12, 182-183, 1928.  
 Gossard, Ohio St. Hort. Soc. Proc. 58, 77-78, 1925.  
 iGuyton & McCubbin, Pa. Agr. Gen. B. 441, 6-7, 1927.  
 iGuyton, Penn. Dept. Agr. Gen. B. 473, 1929, 15 p.  
 Hadley, Penn. St. Hort. Assoc. Proc. 65, 5-6, 1924.  
 Hadley, J. Ec. Ent. 20, 705-706, 1927.  
 Hadley, J. Ec. Ent. 22, 469-470, 1929.  
 Hardison, Cal. Dept. Agr. Mo. B. 17, 71, 1928.  
 Hayes, Ann. Ent. Soc. Amer. 21, 291, 1928.  
 Headlee, N. J. R. 46, 372, 1925.  
 Headlee, N. J. St. Hort. Soc. Proc. 50, 95-99, 1925.  
 Headlee, Peninsula Hort. Soc. Tr. 38, 56-58, 1925.  
 Headlee, N. J. Hort. Soc. Proc. f. 1926, 67-68.  
 iHermes, J. Ec. Ent. 22, 289-293, 1929.  
 Herrick, N. Y. St. Hort. Soc. Proc. 74, 13-15, 1929.  
 iHerrick, Rur. N. Y. 88: 5045, 328-330, 1929.  
 iHouser, Ohio Mo. B. 10; 3 & 4, 33-49, 1925.  
 Howard, U.S.D.A. Ent. R. f. 1925, 5-7.  
 Howard, U.S.D.A. Ent. R. f. 1926, 5-8.  
 Howard, U.S.D.A. Ent. R. f. 1927, 5.  
 Jordon, Canning Trade, 50; 1, 14, 1927.  
 iKirby, Amer. Agr. 120, 123, 1927.  
 iKirby, Amer. Fruit Grow. Mag. 48: 2, 4, 1928.  
 iKirby, C. Gentl. 93: 1, 106, 1928.  
 Kirby, C. Gentl. 93; 7, 44, 1928.  
 iKirby, Fla. St. Pl. Bd. Mo. B. 12, 168-174, 1928.  
 Koiner, Va. Dept. Agr. R. f. 1928-29, 14.  
 Leach, Penn. Dept. Agr. Gen. B. 410, 1925, 12 p.  
 iLeach, U. S. Golf Assoc. Green Sec. B. 5, 100-102, 1925.  
 iLeach Golfdom 1: 10, 14-16, 1927.  
 iLeach, Golfdom 1: 11, 9-12, 1927.  
 iLeach, Gard. & Home Bldg. 47, 388-406, 1928.  
 iLeach, Gard. & Home Bldg. 47, 634, 671, 1928.  
 iLeach, Golfdom 2: 1, 10-14, 1928.  
 iLeach, Golfdom 2: 4, 22-26, 1928.

- iLeach, U. S. Golf Assoc. Green Sec. B. 8: 2, 28-33, 1928.
- iLeach & Fleming, Pa. Gen. B. 440, 15-21, 1927.
- ibLeach & Johnson, U.S.D.A.B. 1332, 1925, 18 p.
- iLeach & Lipp, Pa. Gen. B. 440, 1-14, 1927.
- iLeach & Lipp, U. S. Golf. Assoc. Bul. Green Sec. 6; 2, 34-36, 1925.
- Linz, Florists Exch. 63: 2, 123-124, 1926.
- Lipman, N. J. R. 47, 20, 1927.
- Lipp, J. Ec. Ent. 22: 824, 1929.
- biLudwig, Ecology, 9: 3; 303-306, 1928.
- Ludwig, Physiol. Zool. 1: 3, 358-389, 1928.
- Marlatt, Amer. Nurserym. 41, 26, 1925.
- Marlatt, Nat. Nurserym. 34, 258, 1926.
- Marlatt, Bur. Farm 3: 3, Md. Farm. Bur. Federation News, Nov. 1927, 17, 24.
- Marlatt, U.S.D.A. Ent. R. f. 1928, 7.
- Marlatt, U.S.D.A. Ent. R. f. 1929, 6-8.
- Marlatt, Amer. Fruit Grow. 49; 12, 19, 1929.
- Marlatt, Nat. Rep. 17; 7, 5-6, 1929.
- Marlatt, South Flor. 28: 6, 7, 1929.
- Molzen, Florists' Rev. 63: 1613; 38, 1928.
- Montgomery, Fla. St. Pl. Bd. Mo. B. 12, 165-167, 1928.
- iO'Kane, Am. Fr. Gr. Mag. 45; 3, 4, '25.
- biPayne, Biol. B. 55, 163-179, 1928.
- Payne, Ann. Ent. Soc. Amer. 22, 611-615, 1929.
- Pettit, Mich. St. Bd. Agr. R. f. 1925, 223.
- Pyrke, N. Y. Dept. Agr. & Markets Legis. Doc. 37, 96-99, 1928.
- Pyrke, N. Y. Dept. Agr. & Markets, C. 324, 1927, 19 p.
- Richie, N. J. St. Hort. Soc. Proc. f. 1928, 209-211, 1929.
- iRichmond, J. Ec. Ent. 20, 376-382, 1927.
- Rose, No. Amer. 228, 255-256, Ag. 1929.
- Safro, N. J. Dept. Agr. C. 133, 1928, 6 p.
- Safro, N. J. Dept. Agr. C. 140, '28, 16 p.
- Safro, J. N. Y. Ent. Soc. 36, 462, 1928.
- Safro, J. Ec. Ent. 22, 317-319, 1929.
- iSafro, N. J. Dept. Agr. C. 152, '29, 29 p.
- iSafro, N. J. Dept. Agr. C. 156, 1929, 33 p.
- Safro, N. J. Dept. Agr. R. 13, 115-117, 1929.
- Satterthwaite, Gard. Chron. 31, 221, 1927.
- Slate, Conn. B. 291, 94, 1927.
- Slate, Conn. B. 298, 118, 1928.
- Smith, Am. Flor. 63: 1218-1220, Ja. 10, 1925.
- Smith, J. Ec. Ent. 18, 616-620, 1925.
- iSmith, N. J. Dept. Agr. C. 90, 1925, 31 p.
- Smith, Flor. Exch. 63, 1005, 1018, 1926.
- Smith, N.J. Dept. Agr. R. 11, 71-77, 1926.
- Smith, Hoosier Hort. 9, 8, 14, 47-48, 1927.
- Smith, N.J. Dept. Agr. R. 12, 91-102, 1927.
- Smith, Tree Talk, 8: 3, 18-19, 26, 1927.
- iSmith, U.S.D.A. YB 1927, 398-403, 1928.
- Smith, N. J. St. Hort. Soc. Proc. f. '28, 198-209,
- Smith, N.J. Dept. Agr. R. 13, 117-124, 1929.
- iiSmith, Phila. Acad. Nat. Sci. Year Bk. 1928, 5-15, 1929.
- ibSmith & Hadley, U.S.D.A. Dept. C. 363, 1926, 66 p.
- Smith, Internat. Cong. Ent. 4, Tr. 2, 508-515, 1929.
- iSmith, et al, N. J. Dept. Agr. C. 152, 1929, 29 p.
- Springer, Fla. St. Pl. Bd. Quar. B. 11: 1, 1-7, 1926.
- iSpringer, Fla. St. Pl. Bd. Mo. B. 12, 175-181, 1928.
- Sudds, Rur. N. Y. 87, 1047, 1928.
- Symons, Univ. Md. Ext. Serv. R. 10, 123, 1925.
- Symons, Md. Ext. R. 14, 8-9, 1929.
- Van der Meulen, J. Ec. Ent. 22, 812-814, 1929.
- Van Leeuwen, Pa. Dept. Agr. Gen. B. 406, 1925, 8 p.
- bVan Leeuwen, J. Ec. Ent. 19, 786-790, 1926.
- Van Leeuwen, N. J. Dept. Ag. C. 168, 1929, 8 p.
- Van Leeuwen & Van der Meulen, J. Ec. Ent. 20, 603-607, 1927.
- Weiss, N. J. St. Dept. Agr. B. 45, 59-75, 1925.
- Worthley, J. Ec. Ent. 20, 471-476, 1923.
- Am. Flor. 63, 1213-20, 1925.

**Popillia japonica** *Cont'd*

- Amer. Nurseryman. 50, 80, 97, 241, 1929.
- Bur. Farm. 2; 11, Pa. Farm. Bur. News 2; 7, 12, 1927.
- Flor. Exch. 59, 35, 46, 19, 1926.
- i—Lit. Dig. 84, 26, Mar. 14, 1925.
- Md. Agr. Soc. R. 13, 23-24, 1928.
- Nat. Cannery Assoc. B. 103-A, 34-35, 1928.
- National Nurseryman 33, 94, 1925.
- National Nursery. 36:10, 10, 1929.
- N. J. Dept. Agr. C. 134, 1928, 4 p.
- N. J. Dept. Agr. C. 136, 1928, 4 p.
- Off. Rec. U.S.D.A. 6: 34, 1, 1927.
- Off. Rec. U.S.D.A. 7: 8, 3, 1928.
- Pa. Dept. Agr. B. 436, 61-64, 1926.
- S. C. Wkly. News Notes, 18; 20, 1929.
- i—Tree Talk 8: 1, 19, 1926.
- Western Home Fruit & Garden 8; 11, 12, 1926.
- ‡**Popillia japonica**—*Baits & traps.*
- iFrisell, Flor. Exch. 68, 587-588, 1928.
- iFrisell, Flor. Exch. 65, 1205, 1927.
- L. C. L., Flor. Exch. 63, 1407, 1926.
- iMetzger, N. J. Dept. Agr. C. 146, 1928, 8 p.
- iRichmond & Metzger, J. Ec. Ent. 22, 299-314, 1929.
- Smith, Shade Tree 2: 5, [2], 1929.
- Thompson, Market Growers J. 37, 873, 1925.
- Van Leeuwen, J. Ec. Ent. 19, 190, 1926.
- Whitacre, Penn. Farmer 100; 1171, 9, 1929.
- Popillia japonica**—*Food habits*
- Brannon, So. Plant. 90: 14, 19, 1929.
- blFelt, N.Y. St. Mus. B. 274, 131-139, 1928.
- Popillia japonica**—*Fumigants*
- Leach & Johnson, U.S.D.A.B. 1332, 13-17, 1925.
- Popillia japonica**—*Losses by*
- Houttei, Nat. Nurseryman, 36; 12, 16-19, 1929.
- Popillia japonica**—*Olfactory response*
- Richmond, Proc. Ent. Soc. Wash. 29, 36-44, 1927.

**Popillia japonica**—*Parasites*

- liClausen, King & Teranishi, U.S.D.A. B. 1429, 1927, 55 p.
- Gardner, U. S. Golf Assoc. B. Green Sec. 9, 155, 1929.
- Hallock, Ent. News 40, 76-78, 1929.
- iKing, U.S.D.A. YB 1927, 403-407, 1928.
- King, Allen & Hallock, J. Ec. Ent. 20, 365-373, 1927.
- iKing & Hallock, J. Ec. Ent. 18, 351-356, 1925.
- Steiner, J. Wash. Acad. Sci. 19, 437-440, 1929.
- Popillia japonica**—*Quarantine*
- Bentley, Tenn. Pl. Dis. Control B. 47, 10, 1926.
- C. L. L., Flor. Exch. 63, 224, 1926.
- C. L. L., Flor. Exch. 63, 489, 1926.
- Dunlap, U.S.D.A., F.H.B., S.R.A., 87, 59-60, 1926.
- Dunlap, U.S.D.A., F.H.B., S.R.A., 89, 126, 1926.
- Hadley, Penn. St. Hort. Soc. Proc. f. 1926, 50-56.
- Hadley, Penin. Hort. Soc. Tr. 42, 107-108, 1929.
- Hadley, Peninsula Hort. Soc. Tr. f. 1929, 107-108, 1929.
- Herr, Flor. Exch. 63, 740, 1926.
- Herrick, Flor. Exch. 72; 12, 11, 38, '29.
- Hyde, Flor. Exch. 70; 5, 49, 1929.
- Jardine, U.S.D.A., F.H.B., S.R.A., 82, 9-10, 1925; 83, 40, 1925; 85, 104-105, 1925; 86, 11, 1926; 87, 51-54, 1926; 88, 66-68, 1926; 89, 118-125, 1926; 90, 33-40, 1927; 91, 69-71, 1927; 92, 106-108, 145-146, 1927.
- Jardine, U.S.D.A., P.Q.C.A., S.R.A., 95, 34-36, 1928.
- Jardine, Canning Trade, 51; 25, 10, 1929.
- Johnson, Conn. B. 305, 737-743, 1929.
- Linz, Flor. Exch. 63, 390, 1926.
- Linz, Flor. Exch. 72; 10, 11, 29, 1929.
- MacGowan, Amer. Flor. 69; 2044, 8, 1927.
- Marlatt, et al., U.S.D.A. Fed. Hort. Bd. Quar. 48, 1-12, 1925.
- Marlatt, U.S.D.A., F.H.B., S.R.A., 82, 7, 1925.

iMarlatt, U.S. Fed. Hort. Bd. Notice of Quar. 48, 4th rev., 1926, 12 p.  
 Marlatt, U.S.D.A., F.H.B., S.R.A., 87, 51, 1926.  
 Marlatt, Amer. Flor. 69; 2061, 4, 1927.  
 Marlatt, U.S.D.A., F.H.B., S.R.A., 90, 32, 1927; 92, 147, 1927.  
 Marvin, U.S.D.A., F.H.B., S.R.A., 89, 116-117, 1926; 92, 104-106, 1927.  
 Marvin, U.S.D.A., P.Q.C.A., S.R.A., 96, 76-77, 1928.  
 R.E.F., Florists' Rev. 58, 126-128, 1926.  
 Reagar, U.S.D.A., F.H.B., S.R.A., 86, 10-11, 1926; 91, 69, 1927.  
 Shook, Canning Trade, 50; 9, 8, 1927.  
 Smith, Hoosier Hort. 9; 2, 29, 1927.  
 Smith, N. J. Hort. Soc. Proc. 1927, 119-125, 1928.  
 Stockwell, J. Ec. Ent. 18, 488-491, 1925.  
 Wacklins, Mich. St. Dept. Agr. Bien. R. 1, 147, 1924.  
 Wallace, U.S.D.A., F.H.B., S.R.A., 82, 7-8, 1925.  
 —Am. Flor. 63: 1213-1220, Ja. 10, 1925.  
 —Am. Flor. 64, 586, 1925.  
 —Am. Flor. 65; 1962, 22, 1926.  
 —Am. Flor. 67; 1993, 12, 1926.  
 —Am. Flor. 67; 2000, 1, 10, 1926.  
 —Am. Flor. 69; 2052, 8, 1927.  
 —Am. Flor. 69; 2053, 8, 1927.  
 —Am. Flor. 71; 2117, 32, 1928.  
 —Am. Flor. 72; 64, 13, 1929.  
 —Amer. Fr. Gr. Mag. 46; 10, 12, 1926.  
 —Amer. Fr. Gr. Mag. 47; 5, 12, 1927.  
 —Amer. Nurseryman 38, 120, 1923.  
 —Canning Trade, 49; 34, 18, 20, 1927.  
 —Canning Trade, 51; 29, 32, 1929.  
 —Conn. B. 285, 247-252, 1927.  
 —Flor. Exch. 63, 488, 1926.  
 —Flor. Exch. 66, 823, 1927.  
 —Flor. Exch. 69; 210, 1928.  
 —Flor. Exch. 72; 9, 40, 1929.  
 —Florists' Rev. 63; 1622; 26, 1928.  
 —Florists' Rev. 65; 1666, 114, 1929.  
 —Gard. & Home B. 44, 445, Feb. 1927.  
 —Market Growers' J. 38, 232, 1926.

—National Nurseryman 34, 50, 1926; 34, 164, 1926; 36; 10, 13, 1929.  
 —Official Record U.S.D.A. 5: 42, 5, 1926.  
 —South. Flor. & Nurseryman 28; 1, 19, 1929.  
 —U.S.D.A., F.H.B., S.R.A. 82, 5-10, 1925; 87, 58-59, 1926; 89, 117, 1926; 93, 144, 1927.  
 —U.S.D.A., P.Q.C.A., S.R.A., 97, 101-104, 1928; 97, 118-120, 1928; 98, 2, 1929; 98, 29-39, 1929; 99, 57-59, 1929; 99, 62-67, 1929.  
**Popillia japonica**—Response to colored light  
 bPeterson & Haeussler, Ann. Ent. Soc. Amer. 21: 354-375, 1928.  
**Popillia japonica**—Soil fumigation  
 Cory & Sanders, J. Ec. Ent. 22, 556-561, 1929.  
 biFleming, J. Agr. Res. 33, 821-827, 1926.  
 Smith, Amer. Florists 63, 1218-20, 1925.  
 Smith, Flor. Exch. 59, 91, 1925.  
 Smith, Nat. Nurseryman 33, 1, 9, 1925.  
**Popillia japonica**—Spraying  
 biFleming, J. Ec. Ent. 20, 685-691, 1927.  
 iilLeach, Pa. Dept. Agr. Gen. B. 410, 1-12, 1925.  
 ibLipp, J. Ec. Ent. 20, 801-805, 1927.  
 MacLeod, J. Ec. Ent. 22, 320-322, 1929.  
 iSafro, N. J. Dept. Agr. C. 156, 1929, 33 p.  
 Sudds, Blue Anchor 5; 11, 27-28, 1928.  
**Popillia japonica**—Sprays  
 iVan Leeuwen, Pa. Dept. Agr. Gen. B. 406, 1925, 8 p.  
 Van Leeuwen, J. Agr. Res. 34, 1043-1047, 1927.  
**Popillia oxyogga**  
 nOhaus, Annals Carnegie Mus. 17; 1, 87-88, 1926.  
**Poplar and willow borer**, *see* **Cryptorhynchus lapathi**  
**Poplar and willow leaf beetles**, *see* **Lina scripta** and **Lina interrupta**  
**\*Poplar borer**, *see* **Saperda calcarata**  
**Poplar girdler**, *see* **Saperda concolor**  
**Poplar insects**  
 Peirson, Me. For. Serv. B. 5, 115-116, 1927.



- Poplar leaf-folding sawfly, *see* *Pontania bozemani*
- Poplar leaf-miner, *see* *Lithocolletis tremuloidella*
- Poplar leaf stem gall, *see* *Pemphigus populitransversus*
- Poplar leaf tyer, *see* *Melalopha inclusa*
- Poplar longhorn, *see* *Saperda calcarata*
- Poplar mocha-stone moth, *see* *Ichthyura inclusa*
- Poplar sawfly, *see* *Trichiocampus viminalis*
- Poplar tree borer, *see* *Aegeria tibialis*
- Poppea albiloba*  
nGoding, J. N. Y. Ent. Soc. 37, 172-173, 1929.
- Porcellio laevis*  
iPopenoe, U.S.F.B. 789 rev. Jl. 1925, 5-6.
- Porosagrotis carolia*  
niSchaus, Proc. Ent. Soc. Wash. 31, 47, 1929.
- Porosagrotis orthogonia* (Pale western cutworm)\*  
nBarnes & Benjamin, Can. Ent. 58, 303, 1926.  
bCook, Ecology 7; 37-47, 1926.  
ibCook, J. Ec. Ent. 20, 769-782, 1927.  
Cook, U.S. Mo. Weather Rev. 56: 3, 103-106, 1928.  
ibCook, Ecology 10, 285-293, 1929.  
Essig, Insects of Western No. Amer. 1926, 681-682.  
iMabee, Mont. B. 100, 1929, 11 p.  
iSeamans, Can. Dept. Agr. Ent. Br. n.s. Pam. 71, 1926, 8 p.  
Seamans, Quebec Soc. Protec. Plants R. 20, 9-11, 1928.  
Strickland, Sci. Agr. 6, 39, 1925.
- Porosagrotis vestusta*  
Crumb, U. S. Dept. Agr. Tech. B. 88, 87-89, 1929.  
Eyer & McCubbin, Pa. Dept. Agr. Gen. B. 433, 13, 1926.
- Porricondyla minor*  
nFelt, Can. Ent. 58, 268, 1926.
- Porricondyla sylvestri*  
nFelt, Boston Soc. Nat. Hist. Occ. Papers 5, 207-208, 1926.
- Porthetria dispar* (Gypsy moth)\*  
Ashworth & Britton, Conn. B. 275, 253-272, 1926.  
Ashworth & Britton, Conn. B. 294, 231-246, 1928.  
Bailey, Comm. Agr. Vt. Bien. R. 13, 42-47, 56, 1926.  
Bailey, Vt. Agr. Bien. R. 14, 82-86, 1928.  
Balch, U. S. Forest Worker 4:2, 18, 1928.  
Berly, S. C. C. 32, 24, 1924.  
Bridges, Amer. Nat. 59, 128, 1925.  
Britton, Conn. B. Immediate Inform. 54, 31-34, 1926.  
iBritton & Ashworth, Conn. B. 265, 254-276, 1925.  
Britton & Ashworth, Conn. B. 285, 199-216, 1927.  
iBritton & Ashworth, Conn. B. 305, 712-727, 1929.  
iBritton & Zappe, Conn. B. 292, 122-123, 1927.  
Burgess, Mass. Comm. Conserv. St. For. R. f. '24, 19-28; R. f. '26, 27-28, 1927; R. f. 1927, 26; R. f. 1928, 20.  
Burgess, U.S.D.A. YB, 1927, 346-349, 1928.  
Burgess, J. Ec. Ent. 22, 474-478, 1929.  
Burgess & Crossman, U.S.D.A. Tech. B. 86, 143-145, 1929.  
Dohanian, J. Ec. Ent. 20, 310, 1927.  
Dunlap, U.S.D.A., P.Q.C.A., S.R.A., 97, 111-117, 1928.  
Duryee, N. J. Dept. Ann. R. 12, 7-8, 89-90, 1927.  
Felt, N. Y. St. Mus. B. 260, 48-49, 1925.  
Felt, N. Y. St. Mus. B. 267, 40-41, 1926.  
Felt, J. Ec. Ent. 20, 65, 1927.  
Gossard, Ohio St. Hort. Soc. Proc. 58, 79, 1925.  
Howard, U.S.D.A. Ent. R. f. 1926, 8-10.  
Howard, U.S.D.A. Ent. R. f. 1927, 9.  
Hutchings, Quebec Soc. Protec. Pl. R. 18, 114, 1925-1926.  
Marlatt, U.S.D.A. Ent. R. f. 1928, 11-12.  
McIntyre, Maine Com. Agr. R. 21, 48-52, 1924.  
McLaine, Ont. Ent. Soc. R. 55, 60-62, 1925.  
McLaine, Quebec Soc. Protec. Plants R. 17, 32-34, 1925.

- McLaine, Ont. Ent. Soc. R. 57, 21, 1927.  
iMinott & Guild, J. Ec. Ent. 18, 345-348, 1925.  
O'Kane, N.H. Dept. Agr. Bien. R. 8, 269-278, 1928.  
iPeirson, Me. For. Serv. B. 5, 89-91, 98, 1927.  
Petch & Armstrong, Quebec Soc. Protec. Plants R. 17, 76, 1925.  
Saforo, N. J. Dept. Agr. R. 13, 114-115, 1929.  
Short, Quebec Soc. Protec. Pl. R. 18, 120-122, 1926.  
iSlate, Conn. B. 274, 193-194, 1926.  
iSlate, Conn. B. 291, 94-95, 1927.  
Smith, Mass. Com. Conserv. & St. For. R. f. 1924, 18-19.  
Smith, Mass. Com. Conserv. & St. For. R. f. 1928, 18-19.  
Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 14-16, 1926.  
Trafton, Me. St. Bd. Agr. R. 22, 43-46, 1926.  
iWeiss, N. J. Dept. Agr. C. 89, 1925, 19 p.  
Weiss, N. J. St. Dept. Agr. B. 45, 55, 1925.  
iWeiss, N. J. Dept. Agr. C. 105, 1926, 32 p.  
Weiss, N. J. Dept. Agr. R. 12, 89-90, 1927.  
Weiss, N. J. Dept. Agr. C. 150, 1928, 10 p.  
Weiss, N. J. Dept. Agr. C. 169, 1929, 9 p.  
iWeiss, et al, N. J. Dept. Agr. C. 127, 1927, 12 p.  
i——Conn. B. 264, 195-196, 1925.  
i——N. Y. State Cons. Com. R. 18, 150-164, 1928.  
——Science Suppl. 65: 1691, xii, 1927.
- Porthetria dispar—Aeroplane dusting**  
iBarnes & Potts, J. Ec. Ent. 20, 213-322, 1927.  
Kunkel, Florists Exch. 64: 2, 110, 1927.  
——Aviation, 21, 715, 1926.  
iAutomobile Engin. 19, 236-241, Jl. 1929.
- Porthetria dispar and bacterial diseases**  
Metelnikov & Chorine, Internat. Corn Borer Invest. Sci. R. 2, 60-61, 1929.
- Porthetria dispar—Metamorphosis**  
bKopeck, Biol. B. 50, 339-354, 1926.
- Porthetria dispar—Parasites**  
Burgess, J. Ec. Ent. 19, 289-294, 1926.  
libBurgess & Crossman, U.S.D.A. Tech. B. 86, 1929, 146 p.  
Crossman, J. Ec. Ent. 18, 164-172, 1925.  
iCrossman, J. Agr. Res. 30, 643-675, 1925.  
Webber & Dowden, J. Ec. Ent. 18, 860, 1925.  
Webber & Schaffener, U.S.D.A.B. 1363, 1926, 31 p.
- Porthetria dispar—Quarantine**  
Bentley, Tenn. Plant Dis. Control B. 44, 82-83, 1924.  
Bentley, Tenn. Plant Dis. Control B. 47, 12, 1926.  
Britton, Conn. B. Immed. Inf. 44, '24, 4 p.  
Britton, Conn. B. Immed. Inform. 54, 1926, 6 p.  
Jacobsen, Cal. Agr. B. 14, 150, 1926.  
Jardine, U.S.F.H.B. Not. Quar. 45, Amend. 1, 1925, 4 p.  
Jardine, U.S.D.A., F.H.B., S.R.A., 85, 94-97, 1925.  
iJardine, U.S.D.A., F.H.B., S.R.A. 91, 62-68, 1927.  
Jones, Wis. Dept. Agr. B. 69, 90-91, 1924.  
Marvin, U.S.D.A., F.H.B., S.R.A., 91, 61-62, 1927.  
Rogers, J. Ec. Ent. 18, 481-486, 1925.  
Strong, Cal. Dept. Agr. Mo. B. 17, 67, 1928.  
——Amer. Nurserym. 43, 164, 1926.  
——Conn. B. 285, 217-222, 1927.  
——U.S.D.A., F.H.B., S.R.A., 86, 48-49, 1926.  
——U.S.D.A., P.Q.C.A., S.R.A., 97, 99-101, 1928; 98, 5, 1929; 99, 53-54, 1929.
- Porthetria dispar—Wind dispersal**  
Felt, J.N.Y. Ent. Soc. 34, 289, 1926.
- Porthetria dispar and balloon**  
——Sci. Amer. 132, 341, 1925.
- Porthetria dispar and Streptococcus disparis**  
Barnes & Potts, J. Ec. Ent. 22, 423, 1929.

**Potamanthus—genus, rufous**

nbiArgo, J.N.Y. Ent. Soc. 35, 319-325, 1927.

**Potamanthus verticis**

McDunnough, Can. Ent. 58, 185-186, 1926.

**Potamobates osborni**

nDrake & Harris, Proc. Biol. Soc. Wash. 41, 25-26, 1928.

\*Potato aphid, *see* *Illinois solanifolii*

\*Potato flea beetle, *see* *Epitrix cucumeris*

**Potato insects**

Bailey, Potato News B. 2, 32-34, 1925.

Baker, Wash. St. Hort. Assoc. Proc. 23, 209-211, 1927.

Compton, Ill. Hort. Soc. Tr. 60, 416-420, 1926.

Couey, N. Dak. C. 37, 6, 1929.

**Potato insects**

Duffy, Amer. Potato J. 3, 166, 1926.

Fernald & Osmun, Mass. Ext. Leaf. 21 rev. 1929, 12 p.

Hedrick, N. Y. (Geneva) R. 48, 58-59, 1929.

Mackie, Cal. Cult. 70, 615, 1928.

McCubbin, et al, Penn. Dept. Agr. B. 9, 2, 17-27, 1926.

Mason, Spraying, 461-483, 1928.

Mosley, Cotton & Cotton Oil News 30; 42, 15, 1929.

Morrison, N. Y. Geneva R. 47: 49-50, 1928.

Quinn, Mo. B. 240, 24, 1926.

Stuart, Potato News B. 2, 48, 50, 1925.

Thatcher, N. Y. Gen. R. 43, 44-45, 1924.

Wilkinson, Conn. Ext. B. 95, 5, 1926.

\*Potato leafhopper, *see* *Empoasca fabae*

Potato psyllid, *see* *Paratrioza cockerelli*

\*Potato stalkborer, *see* *Trichobaris trinitata*

Potato stem borer, *see* *Gortyna micacea*

\*Potato tuber worm, *see* *Phthorimaea operculella*

Potherb butterfly, *see* *Pontia napi*

**Poultry and poison spray**

—Amer. Fruit Grow. 47: 9, 10, 1927.

\*Poultry bug, *see* *Haematosiphon inodorus*

**Poultry insects**

Beach & Freeborn, Cal. Ext. C. 8, 63-64, 1929.

iBillings, Minn. Ext. Sp. B. 103, 10-12, 1926.

iBishopp, Farm & Ranch, 45; 49, 2, 5, 24, 25, 1926.

iCates, Country Gentl. 90; 18, 6, 1925.

Cooke, Bur. Farm. 3; 12, Minn. Farm Bur. Sec. Aug. 1928, 16.

Daniels, Amer. Poul. Advo. 35; 193, 1926.

Glazener, Tex. Ext. C. 42, 1925, 4 p.

Goodearl, West. Farm Life 31; 17, 20-21, 1929.

Hanke, Poul. Item 28; 8, 12, 13, 40, 1926.

Hayes, Hoard's Dairym. 71, 764, 1926.

Huskin, Farm & Ranch, 45; 24, 19, 1926.

Jull, U.S.F.B. 1508; rev. 1929, 27-28.

iKaupp, N.C. Ext. C. 160, 1926, 10 p.

Kaupp, O. K. Poul. J. 18, 445, 459, '29.

Lapp, Nat. Poul. Butter & Egg B. 12; 9, 26-27, 1928.

Swenk & Mussehl, Neb. C. 37, 1928, 31 p.

iVernon, Stouder & Cochran, Iowa Ext. B. 155, 1929, 15 p.

W. C. W., Rur. N. Y. 85, 197, 1926.

**Poultry lice**

A. A. B., Success Farm. 23; 11, 91, 1925.

C. B., Breeder's Gaz. 90, 769, 1926.

iBishopp, Farm & Ranch 45; 49, 2, 5, 7, 1926.

Billings, Wallace's Farm. 54: 22, 826, 1929.

Carpenter, Cal. Cult. 73; 1; 15, 1929.

iCleveland, Ind. Ext. B. 109, rev. 1925, 8 p.

Cory, Poultry Succ. 40: 8, 4, 1929.

E.F.W., Hoard's Dairym. 73, 742, 1928.

Embleton, Ariz. Cattlem. & Farm. 12; 39, 2, 1929.

Frank, Amer. Poultry J. 55; 5, 692, 1924.

Goodearl, Dak. Farm. 49, 819, 1929.

H.H., Dairy Farm. 25; 9, 32, 1927.

H.K.C., Penn. Farm. 101, 583, 1929.

Hiscock, Amer. Agr. 11; 4, 6, 1925.

Jull & Lee, U.S.F.B., 1508, 27, 1926.

Kennard, Rur. N. Y. 84, 1050, 1925.

- Kennard, Ohio Bi-Mo. B. 13: 3, 124, 1928.  
 Kennard, Ohio Farm. 161, 549, 1928.  
 Marcovitch, Tenn. C. 2, 1926, 2 p.  
 Morgan, Clemson Col. S. C. Wkly News Notes, 17: 13, 1928.  
 Patterson, Vet. Med. 23, 241-242, 1928.  
 R. S., Mich. Farm. 178, 215, 1929.  
 iSwenk & Mussehl, Neb. C. 37, 1928, 31 p.  
 Watson, Citrus Indust. 4: 7, 23, 1923.  
 Wilson, Farm & Ranch, 45; 9, 20, 1926.  
**Poultry louse**, *see* *Menopon pallidum*  
**Poultry mite**, *see* *Dermanyssus gallinae*  
**Poultry parasites**  
 Anderson, N. Mex. Ext. C. 95, 24-25, 1928.  
 iBishopp, Farm & Ranch 45; 49, 2, 5, 7, 25, 1926.  
 iBishopp, U.S.D.A., YB, 1927, 535-538, 1928.  
 Herrick, N. Y. Cornell Ext. B. 115, 10-11, 1925.  
 Mehrhof, Fla. Grower 34: 1, 10, 1926.  
 iParman et al, U.S.D.A. Tech. B. 60, 1928, 24 p.  
**Powder post beetles**, *see* *Lyctus* spp.  
**Prairie clover weevil**, *see* *Apion vari-corne*  
**Prairie insects**  
 bHayes, Ecology 8, 238-250, 1927.  
**Prairie tree cricket**, (Black-horned tree cricket)\*, *see* *Oecanthus nigricornis*  
**Prenanteon micropunctatus**  
 niFenton, P.U.S.N.M. 72; 8, 1516, 1928.  
**Prenolepis bourbonica**  
 Illingworth, Hawaiian Pineapple Can-ners' Exp. Sta. B. 7, 9, 1926.  
**Prenolepis fulva**  
 bEarle, Facts About Sugar 22, 1010, 1927.  
**Prenolepis imparis** (Little honey ant)  
 Pijoan, J. Ent. & Zool. 20, 41-42, 1928.  
**Prenolepis longicornis** (Crazy ant)\*  
 Illingworth, Hawaiian Pineapple Can-ners' Exp. Sta. B. 7, 9, 1926.  
**Prickleback**, *see* *Ephemerella grandis*  
**Prickly ash beetle**, *see* *Xanthoxylum tri-rhabda brevicollis*  
**Prickly pear—Biological control**  
 Cockerell, Science 69, 328-329, 1929.  
**Prickly-Pear Board of Australia**  
 Howard, J. Ec. Ent. 19, 872, 1926.  
**Priesneriella n. gen., citricauda**  
 nHood, Proc. Biol. Soc. Wash. 40, 198-199, 1927.  
**Primocerioides n. gen.**  
 Shannon, J. Wash. Acad. Sci. 17, 41-42, 1927.  
**Priocnemella salti**  
 Banks, Harvard Biol. Lab. Studies on Cuban Insects 1, 6-7, 1928.  
**Priocnemis barbouri**  
 nBanks, B. Mus. Comp. Zool. 67, 333, 1925.  
**Priocnemis decepta**  
 nBanks, Can. Ent. 58, 201-202, 1926.  
**Priocnemis doddsi, fairchildi**  
 nBanks, B. Mus. Comp. Zool. 67, 334-335, 1925.  
**Priocnemis leiby**  
 nBrimley, Elisha Mitchell Sci. Soc. J. 43, 203-204, 1928.  
**Priocnemis molinoidi 335-336, parkeri 335, wheeleri 334, zeteki 336-337**  
 nBanks, B. Harvard Mus. Comp. Zool. 67, 1925.  
**Prionini**  
 Williams, Ann. Carnegie Mus. 19: 2, 139-146, 1929.  
**Prionocera electa**  
 Alexander, Can. Ent. 59, 188-189, 1927.  
**Prionoxystus macmurtrei**  
 Peirson, Me. For. Serv. B. 5, 94, 1927.  
**Prionoxystus robiniae** (Carpenter worm)\*  
 Peirson, Me. For. Serv. B. 5, 87, 1927.  
 iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 43-44, 1926.  
**Prionus californicus** (California root borer)  
 iChamberlain, Amer. For. 33, 141, 1927.  
 iCrawford & Eyer, New Mex. B. 168, 1928, 8 p.  
 iEssig, Insects of Western No. Amer. 1926, 449-450.  
 Garcia, N. M. Ann. R. 39, 21, 1928.

- Prionus laticollis* (Giant root borer)  
 iBarre, S. C. Rept. 41, 52, 1928.  
 Barre, S. C. R. 42, 63-64, 1929.  
 Garcia, New Mex. R. 36, 19-20, 1925.  
 Peirson, Me. For. Serv. B. 5, 35, 1927.  
*Prionus* sp.  
 Galloway, U.S.D.A.B. 1329, 42, 1925.  
*Pristaulacus flavipes* 175-176, glabrescens 174-175, taughanic 173-174  
 Bradley, Brooklyn Ent. Soc. B. 21, 1926.  
*Pristocera armifera*  
 Hayes, Proc. Ent. Soc. Wash. 29, 20, 1927.  
*Pristoceuthophilus cercalis*  
 Buckell, Proc. Ent. Soc. B. C. 22, 36, '25.  
*Pristoceuthophilus gaigei*  
 niHubbell, Pan-Pac. Ent. 2, 39-42, 1925.  
*Pristomerus baumhoferi*  
 Cushman, P.U.S.N.M. 76; 25, 9-10, 1929.  
*Pristomerus ideii*  
 nViereck, Can. Ent. 57, 74, 1925.  
*Pristophora chromata*  
 nRohwer, P.U.S.N.M. 68, Art. 8, 11-12, 1925.  
*Pristothrips aptus, albipunctatus*  
 nHood, Psyche 32, 62-63, 1925.  
*Proarna venosa*  
 bBeamer, Kans. Univ. Sci. B. 18: 200-203, 1928.  
*Probatus dominicus*  
 nFisher, P.U.S.N.M. 68, art. 22, 30-31, 1926.  
*Problema bulenta*  
 iJones, Ent. News 37, 194-197, 1926.  
*Probolomyrmex dammermani*  
 niWheeler, Psyche 35, 7-9, 1928.  
*Probolus leucaniae*  
 Girault, Ins. Insc. Mens. 13, 35, 1925.  
*Procecidochares atra*—n. var. 9, *flavipes* 5, *grindeliae* 6, *pleuralis* 9, spp. Revision 13 p.  
 Aldrich, P.U.S.N.M. 76; 2, 1929.  
*Prociphilus*, see *Pemphigus*  
*Proctacanthus gracilis, hinei*  
 nBromley, Psyche 35, 13-15, 1928.  
*Prodenia commelinae*  
 Watson, Fla. Dept. Agr. Quar. B. 39: 3; 130-131, 1929.  
*Prodenia dolichos* (Sweet potato caterpillar)  
 iCrumb, U.S.D.A. Tech. B. 88, 146-149, 1929.  
*Prodenia eridania*, see *Xylomyges eridania*  
*Prodenia ornithogalli* (Yellow striped armyworm)\*  
 iCrumb, Brooklyn Ent. Soc. B. 22, 51, 1927.  
 iCrumb, U.S.D.A. Tech. B. 88, 149-156, 1929.  
 Curtiss, Iowa R. f. 1927, 35.  
 Langston, Miss. St. Plt. Bd. Quar. B. 8; 1, 7-8, 1928.  
 Lyle, Miss St. Pl. Bd. Quar. B. 7: 2, 1-4, 1927.  
 Wolcott, Ecology 9, 462, 1928.  
*Prodenia praefica*  
 iCrumb, Brooklyn Ent. Soc. B. 22, 52, 1927.  
*Prodenia* sp.  
 Watson, Fla. Dept. Agr. Quar. B. 39: 3; 83, 1929.  
*Prodiaphonia* n. nom.  
 Townsend, Ent. News 38, 159, 1927.  
*Proelymiotis severina*  
 nSchaus, P.U.S.N.M. 73; 19, 7-8, 1928.  
*Profenusa collaris* (Cherry leaf miner)  
 iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 221-224.  
*Prolimacodes apsorrrha, filifera*  
 nDyar, Ins. Insc. Mens. 13, 17, 1925.  
*Prolimnophila*—n. subgen.  
 nAlexander, Bklyn. Ent. Soc. B. 24, 187, 1929.  
*Prolisothrips*  
 Morgan, Fla. Ent. 9; 1, 5-6, 1925.  
*Promachus bomensis*  
 nCurran, Amer. Mus. Nov. 272, 15, 1927.  
*Promachus dimidiatus*  
 nCurran, Can. Ent. 59, 87-88, 1927.  
*Promachus vertebratus*  
 iAaron, Nat. Mag. 14, 281-284, 1929.  
 \**Promethea* moth, see *Callosamia promethea*  
*Pronotocrepis*  
 nKnight, Can. Ent. 61: 217, 1929.

- Pronotocrepis clavicornis*  
nKnight, Can. Ent. 61: 217-218, 1929.
- Prontaspis yanonensis* (Yanone scale)  
Clausen, U.S.D.A. Tech. B. 15, 4, 1927.
- Pronuba yuccasella*, see *Tegeticula alba*
- Prooppia*, n. gen.  
Townsend, Ins. Insc. Mens. 14, 32, 1926.
- Properigea*—n. gen.  
nBarnes & Benjamin, Pan-Pac. Ent. 3, 112-113, 1927.
- Prophanurus* sp.  
Myers, Planter & Sugar Mfg. 83, 345, 1929.
- Prorhinotermes manni, solomonensis*  
nSnyder, J. Wash. Acad. Sci. 15, 399-401, 1925.
- Prorhynchops errans*  
niCurran, Amer. Mus. Nov. 260, 13-14, 1927.
- Prosenia siberita*  
ilClausen, et al, U.S.D.A.B. 1429, 20-25, 1927.  
Gardner, J. Ec. Ent. 22; 842, 1929.  
iKing, U.S.D.A. YB, 1927, 405-406, '28.  
King, U. S. Golf Assoc. Green Sec. B. 7, 108, 1927.  
King, Allen & Hallock, J. Ec. Ent. 20, 366-368, 1927.
- Prosenia scutellaris* 507-508, *varia* 509-510, *variegata* 509, *zonalis* 508  
nCurran, Ann. Ent. Soc. Amer. 22: 1929.
- Prosimulium* sp.  
biO'Kane, N. H. Tech. B. 32, 21, 1926.
- Prosoeca rhodesiensis*  
nBequaert, Psyche 32, 4-8, 1925.
- Prosoponaphothrips*  
nMoulton, Pan-Pac. Ent. 3: 1, 22-23, 1925.
- Prosopolepis hemisiris*  
nDyar & Shannon, J. Wash. Acad. Sci. 15, 234, 1925.
- Prosopolepis* spp.—Key  
Dyar, Ins. Insc. Mens. 13, 118, 1925.
- Prospaltella aurantii*  
iPena, LaHacienda 22, 281, 1927.
- Prospaltella bella, ciliata*  
nGahan, P. U.S.N.M. 71; 4, 21-23, 1928.
- Prospaltella forbesi*  
niDozier, Proc. Ent. Soc. Wash. 30, 37-38, 1928.
- Prospaltella* sp.  
Essig, Pan-Pac. Ent. 1, 188-189, 1925.
- Protosynacra gracilis*  
nFouts, Proc. Wash. Ent. Soc. 29, 171-172, 1928.
- Protalebra bicincta* 259, *clitellaria* 257  
niOsborn, Ann. Carnegie Mus. 18, 1928.
- Protalebra cordiae*  
nOsborn, P. R. Dept. Agr. Jr. 13, 102-103, 1929.
- Protalebra cubana*  
nOsborn, Ann. Ent. Soc. Amer. 19, 353, 1926.
- Protalebra eburneola, fulveola*  
niOsborn, Ann. Carnegie Mus. 18, 256-258, 1928.
- Protalebra lenticula*  
nOsborn, P. R. Dept. Agr. Jr. 13, 103-104, 1929.
- Protalebra lineatella, lineola*  
niOsborn, Ann. Carnegie Mus. 18, 257-263, 1928.
- Protalebra nexa*  
nMcAtee, J.N.Y. Ent. Soc. 34, 150, 1926.
- Protalebra pallida*  
niOsborn, Ann. Carnegie Mus. 18, 260, 1928.
- Protalebra pardalis*  
McAtee, J.N.Y. Ent. Soc. 34, 151, 1926.
- Protalebra picea, sabana*  
niOsborn, Ann. Carnegie Mus. 18, 259-265, 1928.
- Protalebra* spp.—Key  
McAtee, J.N.Y. Ent. Soc. 34, 148, 1926.
- Protalebra tabebuiae*  
niDozier, Porto Rico Dept. Agr. J. 10: 3 & 4, 260, 1926.  
Osborn, Porto Rico Dept. Agr. J. 13, 104-105, 1929.
- Protalebra ziczac*  
nOsborn, Porto Rico Dept. Agr. J. 13, 104, 1929.
- Protarchoides pallipes*  
nCushman, P.U.S.N.M. 72; 13, 15-16, 1928.
- Protenor australis*  
niHussey, J.N.Y. Ent. Soc. 33, 64-66, 1925.
- Proteopteryx bolliana* (Pecan bud moth)  
Cory, Northern Nut Grow. Assoc. R. 18, 47, 1927.  
iLeiby, N.C. Agr. B. Feb. 1925, 13-15.

- Proteoteras willingana**  
ide Gryse, Can. Dept. Agr. Ent. Br.  
Pam. 47, n.s. rev. ed., 19, 1925.
- Proteus photuris**  
Brown, Amer. Mus. Nov. 251, 9, 1927.
- Protocalliphora spp.**  
Dobrosky, Biol. B. 48, 274-281, 1925.  
Johnson, Psyche 34, 33, 1927.  
bJohnson, Ann. Ent. Soc. Amer. 22, 131-135, 1929.
- Protocalliphora splendida**  
Lloyd, Canad. Field Nat. 41:5, 111, 1927.
- Protodiaspis varus**  
niHoke, Annals Ent. Soc. Amer. 21: 672-674, 1928.
- Protokalumma—n. gen.**  
niJacot, B. Harvard Mus. Comp. Zool. 69, 5-6, 1929.
- Protolithocolletis, lathyri**  
nBraun, Can. Ent. 61, 38, 1929.
- Protoparce carolina**  
Morgan & Lyon, J. Ec. Ent. 21, 189-191, 1928.
- Protoparce celius**  
Headlee, N. J. Hort. Soc. Proc. f. 1926, 33-34.
- Protoparce quinquemaculata (Tobacco worm)\***  
iBritton & Anderson, Conn. Tobacco Expt. Sta. B. 6, 90T-92T.  
iCaesar, Ont. Dept. Agr. B. 325, 60-61, 1927.  
iCompton, Ill. C. 297, 29-31, 1925.  
Hefley, Okla. Acad. Sci. Proc. 5, 77-80, 1926.  
bHefley, J. Ec. Ent. 21, 213-221, 1928.  
Marcovitch & Stanley, Tenn. B. 140, 17, 1929.  
nSchaus, Proc. Ent. Soc. Wash. 29, 186, 1927.  
iWatson, Fla. Dept. Agr. Quar. B. 39: 3; 140-142, 1929.
- Protoparce sexta (Tomato worm)\***  
iBritton & Anderson, Conn. Tobacco Expt. Sta. B. 6, 91T-92T.  
iCompton, Ill. C. 297, 29-31, 1925.  
iLeitch, Farm. Advoc. 62, 801, 1927.  
Moore & Pepper, S. C. Ext. C. 84, 10, 1926.
- Wilson, Utah C. 63, 33, 1927.
- Wolcott, Porto Rico Dept. Agr. J. 9: 1; 47-51, 1925.
- Protoparce spp.**  
Mote, Oreg. C. 65, 38-39, 1926.
- Protophormia terra-novae**  
Felt, J. Ec. Ent. 19, 670, 1926.  
Tao, Amer. J. Hyg. 7, 752-753, 1927.
- Protoplasa fitchii—Swarm of males**  
Crampton, Can. Ent. 61, 70-72, 1929.
- Protopulvinaria pyrformis**  
iWatson, Fla. B. 183, 325, 1926.
- Prothorma recurvatum**  
niWilliams, Ann. Carnegie Mus. 19: 2, 143, 1929.
- Proxenus mendosa**  
nMcDunnough, Can. Ent. 59, 211-212, 1927.
- Pruinose, aphid, see Leucopis americana**
- Prune insects**  
Ballard, C. Gentl. 92; 7, 139, 1927.  
Crosby, et al, N.Y.C.B. 498, 67-68, 1929.  
iMason, Spraying, 321-331, 1928.  
iWakeland, Ida. B. 155, 1927, 29 p.
- Psacaphora communis**  
nBraun, Trans. Amer. Ent. Soc. 51, 188, 1925.
- Psaliodes onopria**  
nDyar, Ins. Insc. Mens. 14, 187, 1927.
- Psalis americana**  
Rehn, Trans. Amer. Ent. Soc. 51, 19, 1925.
- Psallus balli**  
nKnight, Can. Ent. 58, 253, 1926.
- Psallus clavicornis**  
nKnight, Proc. Biol. Soc. Wash. 40, 13, 1927.
- Psallus conspurcatus**  
nBlatchley, N.Y. Ent. Soc. Jour. 36, 16-17, 1928.
- Psallus insularis**  
nBarber, Zoologica, N. Y. 5, 250, 1925.
- Psallus maculosus**  
nKnight, Can. Ent. 57, 89-90, 1925.
- Psallus seriatus (Cotton flea hopper)\***  
Barre, S. C. R. 39, 33, 1926; 40, 36-40, 1927; 41, 47-48, 1928; 42, 58-59, '29.  
Brown, Ga. R. 39, 123-124, 1927.  
ibEddy, S. C. B. 235, 1927, 21 p.  
libEddy, S. C. B. 251, 1928, 18 p.

- Good, J. Ec. Ent. 19, 869-870, 1926.  
 Gray, Ark. B. 215, 39-40, 1926.  
 Hamner, Miss. C. 86, 1929, 4 p.  
 iHunter, U.S.D.A. Dept. C.361, 1926, 15 p.  
 iIsely, Ark. Ext. C. 231, 1927, 8 p.  
 bKing, Internat. Cong. Ent. 4, Tr. 2, 452-454, 1929.  
 Kirkpatrick, Valley Farmer & Citrus Gr. 3; 2, 6, 1925.  
 Knight, J. Ec. Ent. 19, 106-107, 1926.  
 iLyle, Miss. St. Pl. Bd. Quar. B. 6; 2, 1-4, 1926.  
 iPepper, Clemson Col. S. C. Weekly News Notes 15, 8, 1926.  
 biReinhard, Tex. B. 339, 1926, 39 p.  
 iReinhard, Tex. C. 40, 1926, 8 p.  
 iReinhard, Tex. B. 356, Apr. 1927, 32 p.  
 iReinhard, Tex. B. 377, 1928, 26 p.  
 iReinhard & Owen, Tex. B. 380, 1928, 27 p.  
 Reinhard, J. Ec. Ent. 22, 765-768, 1929.  
 Reppert, Tex. Ext. Serv. Farm News 9; 20, 3, 1926.  
 Robinson & Arant, Ala. R. 38, 24, 1927.  
 Rude, Okla. Ext. Serv. News 7; 11, 3, 1926.  
 Schoffelmayer, Valley Farmer & Citrus Gr. 2; 12, 5, 1925.  
 Stanford, South. Agr. 59; 13, 12, 1929.  
 Thomas, Tex. Ext. Ser. Farm News 10; 2, 3, 1924.  
 West, Cotton, J. 8; 4, 13, 1929.  
 Whittle, Mfg. Rec. 90; 3, 74-75, 1926.  
 Williams, Ga. Ent. B. 68, 6-7, 1925.  
 Aircraft Yearbk. for 1927, 91-95.  
 Clemson, S. C. Wkly. News Notes 15; 1, 1, 1926.  
 Farm & Ranch, 45; 31, 16, 1926.  
 iFarm & Ranch, 45; 37, 20, 1926.  
 Ga. R. for 1926, 123-125.  
 eTex. R. 39, 29-30, 1927.  
 Valley Farmer & Citrus Grower 4; 4-5, 6, 1926.
- Psallus suaedae**  
 nKnight, Brklyn. Ent. Soc. B.20,34,1925.
- Psallus tinctipennis**  
 nKnight, Can. Ent. 57, 89, 1925.
- Psammocharidae**  
 Banks, B. Harvard Mus. Comp. Zool. 67, 329-338, 1925.  
 iBanks, Harvard Biol. Lab. & Bot. Garden, Cuba, Studies on Cuban insects: 1, 3-10, 1928.
- Psammoleon minor**  
 nBanks, B. Harvard Mus. Comp. Zool. 68, 62-63, 1927.
- Psapharochrus quadrigibbus**  
 Champlain, Kirk & Knull, Ent. News 36, 140, 1925.
- Psaphidia resumens**  
 Engelhardt, Brooklyn Ent. Soc. B. 20, 59, 1925.
- Psara emphatica**  
 nDyar, Ins. Insc. Mens. 14, 147, 1926.
- Pselaphephila argyriceps**  
 nCurran, Can. Ent. 59, 254-255, 1927.
- Pselaphidae**  
 niFletcher, Ann. Ent. Soc. Amer. 21, 203-231, 1928.
- Psenocerus supernotatus**  
 Champlain, Kirk & Knull, Ent. News 36, 140, 1925.  
 Fletcher, Can. Ent. 61, 259, 1929.
- Psepheninae (Psephenus)**  
 West, Ann. Ent. Soc. Amer. 22, 693-694, 1929.
- Psephenus lecontei**  
 Frost, Brooklyn Ent. Soc. B. 23, 136, 1928.  
 West, Battle Creek Col. B. 3, 2-20, 1929.
- Pseudachorutes albipes**  
 niFolsom, P.U.S.N.M. 72; 6, 6, 1928.
- Pseudacontia tricircula**  
 nDyar, Pan-Pacific Ent. 4, 8, 1927.
- Pseudacontia unicolor**  
 nDyar, Proc. Ent. Soc. Wash. 30, 138, 1928.
- Pseudagenia anconis**  
 nBanks, B. Harvard Mus. Comp. Zool. 67, 330, 1925.
- Pseudagenia bruesi**  
 nBanks, Harvard Biol. Lab.—Studies on Cuban Insects 1, 7, 1928.
- Pseudagenia esmerelda, iolanthe**  
 nBanks, B. Harvard Mus. Comp. Zool. 67, 329-330, 1925.



- Pseudagenia marionae* 202, *mariva* 202-203, *najacra* 203  
nBrimley, Elisha Mitchell Sci. Soc. J. 43, 1928.
- Pseudagenia mellipes*  
Rau, St. Louis Acad. Sci. Tr. 25, 342-361, 1928.
- Pseudanaphora arcanella*  
Frost, Bklyn. Ent. Soc. B. 24, 11, 1929.
- "*Pseudanarta*" *flavidens*  
Barnes & Benjamin, Pan-Pacific Ent. 2, 187, 1926.
- Pseudanteris*—n. gen., *insignis*  
nFouts, Proc. Ent. Soc. Wash. 29, 177-178, 1927.
- Pseudaonidia (Selenaspidus) articulatus (Rufus scale)*  
Watson, Fla. B. 183, 316, 1926.
- Pseudaonidia duplex (Camphor scale)\**  
Bentley, Tenn. Plant Dis. Control B. 47, 13-14, 1926.  
Berly, S. C. C. 32, 23, 1924.  
iHinds, La. Ext. C. 122, 10-11, 1929.  
Plank, J. Ec. Ent. 18, 473-481, 1925.  
Watson, Fla. B. 183, 316, 1926.  
Citrus Industry 3; 10, 15, 1922.
- Pseudaphycus utilis*  
Swezey, J. Ec. Ent. 19, 717, 1926.
- Pseudaptinus oviceps*  
nVan Dyke, Pan-Pacific Ent. 2, 121-122, 1926.
- Pseudaspidoproctus*—n. gen.  
nMorrison, Proc. Biol. Soc. Wash. 40, 104, 1927.
- Pseudataenius*—n. gen.  
nBrown, Can. Ent. 59, 290, 1927.
- Pseudatrachia albocincta*—California  
nVan Duzee, Pan-Pacific Ent. 2, 164, 1926.
- Pseuderipternoides deceptus* 302, *hexagonalis* 302, *neglectus* 302-303, *pulchellus* 303, spp.—Key 179  
Viereck, Can. Ent. 57, 1925.
- Pseudibion unicolor*  
Champlain, Kirk & Knoll, Ent. News 36, 106, 1925.
- Pseudiglyphomyia atripropodeum*  
nGirault, Ins. Insc. Mens. 14, 127-128, 1926.
- Pseudisobrachium flavicoxis* 122, *flavivervis* 123, *paucipunctata* 122-123, *puncticeps* 123-124, *rugosulum* 124, sp.—Key 121-122  
nFouts, Proc. Ent. Soc. Wash. 30, 1928.
- Pseudleptomastix flatulescens*, sp.  
niCompere, Cal. Univ. Pub. Ent. 4, 22-24, 1926.
- Pseudleptomastix squamulata*  
iTimberlake & Clausen, Cal. Univ. Tech. B. Ent. 3; 2, 277-279, 1924.
- Pseudobryomima*—n. gen.  
nBarnes & Benjamin, Pan-Pacific Ent. 3, 111, 1927.
- Pseudocalliope*—n. gen.  
nMalloch, P.U.S.N.M. 73; 23, 10, 1928.
- Pseudochaeta argentifrons*  
Flander, Pan-Pacific Ent. 2, 158, 1926.
- Pseudochorutes albipes*  
nibFolsom, P.U.S.N.M. 72; 6, 6, 1927.
- Pseudoclerops sinæ*  
nChapin, Proc. Biol. Soc. Wash. 40, 20-21, 1927.
- Pseudococcus adenostomæ*  
niFerris, Can. Ent. 57, 230-231, 1925.
- Pseudococcus adonidum (Long-tailed mealybug)\**  
iBrittain, N. S. Dept. Nat. Resource B. 12, 130, 1927.  
Dean, Amer. Florist, 71; 42, 6, 1929.  
Galloway, U.S.D.A.B. 1329, 41, 1925.  
iGibson & Twinn, Can. Dept. Agr. B. 112, 54, 1929.  
Watson, Fla. B. 183, 331, 1926.
- Pseudococcus bakeri (Baker's mealybug)*  
Bonnet, Calif. Grape Grow. 9; 3, 7, '28.  
Gentner, Mich. Hort. Soc. R. 54, 193-194, 1925.
- Pseudococcus bonensis (Sugarcane mealybug)*  
bEarle, Facts About Sugar 22, 1010, 1927.  
Holloway & Ingram, Planter & Sugar Mfg. 77, 330, 1926.
- Pseudococcus brevipes (Pineapple mealybug)*  
Ferris, Cal. Agr. B. 16, 339, 1927.
- Pseudococcus bromeliæ*, see *Pseudococcus brevipes*

- Pseudococcus calceolariae*, *see* *Pseudococcus bonensis*
- Pseudococcus citri* (Citrus mealybug)\*  
 Armitage, Citrus Leaves, 8; 2, 23, 1928.  
 iBrittain, N. S. Dept. Nat. Resource B 12, 130, 1927.  
 Brock, Calif. Citrog. 12, 411, 1929.  
 Cory & Eaton, Md. B. 308, 423, 1929.  
 Dean, Amer. Florist, 71: 42, 6, 1929.  
 Delcurto, Halstead & Halstead, Texas Dept. Agr. B. 79, 96-97, 1925.  
 iEssig, Insects of Western No. Amer. 1926, 280-281.  
 iGibson & Twinn, Can. Dept. Agr. B. 112, 54, 1929.  
 iHinds, La. Ext. C. 122, 13-14, 1929.  
 Horton, U.S.F.B. 1031; rev. O. 1926, 29.  
 iHume, Cultivation of Citrus Fruits, 1926, 444-446, 1926.  
 Olitsky, Sci. 62, 442, 1925.  
 Smith, Cal. Cit. 10, 298, 1925.  
 Smith, Citrus Leaves, 4: 7, 1-3, 1924.  
 Smith, Citrus Leaves 5: 8, 2, 1925.  
 Spittall, Proc. Acadian Ent. Soc. 10, 67, 1925.  
 iWatson, Fla. B. 183, 329-331, 1926.  
 Watson, Fla. Dept. Agr. Quar. B. 39: 3; 121-122, 1929.  
 iWoglum, Cal. Citrograph 11, 316, 1926.
- Pseudococcus comstocki*  
 Felt, N. Y. St. Mus. B. 274, 161, 1928.  
 Ferris, Calif. Agr. B. 16, 339, 1927.  
 Hough, J. Econ. Ent. 18, 823-827, 1925.  
 iHough, Va. Poly. Tech. B. 29, 1925, 27 p.  
 Schoene, Va. Agr. R. 1919-1927, 46-51, 1928.  
 Weiss, J. N. Y. Ent. Soc. 33, 237, 1925.
- Pseudococcus filamentosus*  
 Ferris, Cal. Agr. B. 16, 340, 1927.
- Pseudococcus gahani* (Citrophilus mealybug)  
 Armitage, Cal. Cult. 73, 531, 1929.  
 Armitage, Citrus Leaves 4: 8, 4-6 & 9, 1924.  
 Armitage, Citrus Leaves 9; 4, 13 & 32, 1929.  
 Armitage, J. Econ. Ent. 22, 910-915, 1929.  
 Brock, Cal. Agr. B. 16, 342-344, 1927.  
 bEssig, Insects of Western No. Amer. 1926, 282-283.  
 Ferris, Cal. Agr. B. 16, 337-338, 1927.  
 Kellogg, Cal. Dept. Agr. Mo. B. 16, 261, 1927.  
 McGregor, Cal. Fr. Grow. Exch. B. 6, 28-29, 1929.  
 Merrill, Cal. R. f. 1927-28, 34, 1929.  
 Ryan, Cal. Cit. 11, 207, 1926.  
 Ryan, Cal. Dept. Agr. Mo. B. 17, 623, 1928.  
 Urbahns, Cal. Agr. B. 14, 174, 1926.  
 iWoglum, Calif. Citrog. 11, 316-19, '26.  
 Flor. Exch. 60; 21, 1687, 1925.  
 Cal. Cult. 71, 555, 1928.
- Pseudococcus gahani*—Box sterilization  
 Ryan, Cal. Dept. Agr. Mo. B. 18, 245-246, 1929.
- Pseudococcus gahani*—Losses  
 Jacobsen, Calif. Dept. Agr. Mo. B. 15: 115, 1926.
- Pseudococcus gahani*—Method of determining infestation  
 Jacobsen, Calif. Dept. Agr. Mo. B. 16: 638, 1927.
- Pseudococcus gahani*—Native home  
 Smith, J. Ec. Ent. 21, 435-436, 1928.
- Pseudococcus gahani*—Parasites  
 iCompere, Calif. Cit. 13, 318, 1928.  
 Smith, Calif. Cit. 11, 429, 1926.  
 Smith, Calif. Cit. 14, 428-429, 1929.  
 Smith, Calif. Mo. B. 18, 214-218, 1929.  
 Smith & Compere, Cit. Leaves 9: 5, 12-13, 1929.  
 Calif. Dept. Agr. News 8: 14, 42-43, 1926.
- Pseudococcus gahani*—Water washing  
 Brock, Calif. Dept. Agr. Mo. B. 18, 330-332, 1929.
- Pseudococcus grassi*  
 Hough, Va. Poly. Tech. B. 29, 10-11, '25.
- Pseudococcus krahni*  
 Ferris, Cal. Agr. B. 16, 339, 1927.
- Pseudococcus longispinus*, *see* *Pseudococcus adonidum*
- Pseudococcus maritimus* (Grape mealybug)\*  
 iGentner, Mich. Sp. B. 148, 10-12, 1925.

**Pseudococcus maritimus** *Cont'd*

Pettit, Mich. St. Bd. Agr. R. 63, 217-218, 1924.

Smith, J. Ec. Ent. 20, 842-843, 1927.

Urbahns, Calif. Agr. B. 14, 174-175, 1926.

Flor. Exch. 60; 21, 1680, 1925.

**Pseudococcus maritimus—Parasites**

iTimberlake & Clausen, Cal. Univ.

Tech. B. Ent. 3; 2, 223-292, 1924.

**Pseudococcus nipae** (Cocoanut mealy-bug)\*

Pope, Hawaii B. 51, 14, 1925.

**Presudococcus probrevipes**

inMorrison, Ann. Ent. Soc. Amer. 22, 36-38, 1929.

**Pseudococcus sacchari**

Dymond, Facts About Sugar, 24, 851, 1929.

bEarle, Facts About Sugar, 22, 1010, 1927.

iStahl & Scaramuzza, Trop. Pl. Res. Foundation B. 10, 3-7, 1929.

Myeres, Harvard Inst. Trop. Biol. & Med. Cont. 3, 97-99, 1926.

**Pseudococcus sp.**

iClausen, Calif. Univ. Tech. B. Ent. 3; 2, 253-254, 1924.

Langston, Penna. Crop Protec. Inst. B. 4; 9, 17, 1925.

iConn. B. 265, 338, 1925.

iSeverin, So. Dak. Ent. R. 15, 33-37, '24.

Trimble, Penn. Dept. Agr. B. 82; 5, 1925.

Trimble, Penn. Dept. Agr. Gen. B. 480, 5, 1929.

**Pseudococcus virgatus** (Spotted mealy-bug)

Ferris, Calif. Agr. B. 16, 339, 1927.

**Pseudodoryctes fenestratus**

nBrues, Proc. Amer. Acad. Arts & Sci. 61, 246-247, 1926.

**"Pseudodoxia Epidemica"—Entomology of**

Weiss, Ent. News 39, 33-35, 1928.

**Pseudoeribea, n. gen., paradoxoides**

Townsend, Ins. Insc. Mens. 14, 26-27, 1926.

**Pseudogenia mellipes**

Rau, St. Louis Acad. Sci. Tr. 25, 196, 1927.

**Pseudoglaea blanda**

McDunnough, Can. Ent. 59, 65, 1927.

**Pseudogonatopus variistriatus**

niFenton, P.U.S.N.M. 72, 8, 5, 1928.

**Pseudohylesinus sericeus**

Keen, Calif. Dept. Nat. Resources B. 7, 57, 1928.

**Pseudohypocera nigrofascipes**

Brues, Psyche 35, 137, 1928.

**Pseudolimnophila australina**

nAlexander, J.N.Y. Ent. Soc. 35, 56-57, 1927.

**Pseudolimnophila lateipennis**

Rogers, Fla. Ent. 10; 1, 7, 1926.

**Pseudolimnophila ochracea**

Alexander, P.U.S.N.M. 68, Art. 4, 7, 1925.

**Pseudolynchia, new name**

Bequaert, Psyche 32, 271, 1925.

**Pseudolynchia maura**

il-hBishopp, Amer. Pigeon J. 18: 419-420, 1929.

Bishopp, Amer. Pigeon J. 18, 517, 1929.

Bishopp, J. Ec. Ent. 22, 974-980, 1929.

**Pseudomasaria vespoides**

Bequaert, Psyche 40, 80, 1929.

bHicks, Can. Ent. 59, 75-79, 1927.

bHicks, Can. Ent. 61, 121-125, 1929.

**Pseudomasaria wheeleri**

niBequaert, Psyche 36, 62-88, 1929.

**Pseudomelecta interrupta**

Rau, St. Louis Acad. Sci. Tr. 25, 227, 1927.

**Pseudomeloe for medicinal use**

Cockerell, Ent. News 37, 137, 1926.

**Pseudomethoca salti**

nMickel, Psyche 35, 17-18, 1928.

**Pseudomops praeclara, zonata**

niRehn, Trans. Amer. Ent. Soc. 54, 150-156, 1928.

**Pseudomorpha alutacea** 17-18, **arrowi** 19-

20, **champlaini** 20-21, **confusa** 20,

**consanguinea** 18-19, **falli** 15, **hubbar-**

**di** 15-16, **pilatei** 21, **schwarzi** 21, sp.

—Key 14-15, **tenebroides** 16-17, **van**

**dykei** 18, **vindicata** 19.

nNotman, U.S.N.M.P. 67, Art. 14, 1925.

**Pseudomorphidae**

Notman, U.S.N.M.P. 67; 14, 1-34, '25.

**Pseudomya barschi**

nSchaus, Proc. Ent. Soc. Wash. 30, 55-56, 1928.

- Pseudopanscopus**—n. subgen.  
 niBuchanan, Proc. Ent. Soc. Wash. 29, 33, 1927.
- Pseudopentarthrum fraternum**  
 nBlatchley, N.Y. Ent. Soc. J. 36, 260, 1928.
- Pseudophasma esmeraldas**  
 niHebard, Phila. Acad. Nat. Sci. Proc. 76, 136-137, 1925.
- Pseudorhopus**—n. gen., *hartmani*  
 Timberlake, P.U.S.N.M. 69, Art. 3, 9, 10-12, 1926.
- Pseudothysanoes barberi** 206-207, *gambetti* 205-206, *hopkinsi* 200-201, *phorodendri* 202-203, *sedulus* 204  
 nBlackman, N. Y. State Coll. For. B. 1: 3-b, 1928.
- Pseudoxylomoea**—new genus  
 nBarnes & Benjamin, Insecutor Ins. Mens. 14, 183, 1927.
- Psila rosae** (Carrot rust fly)\*  
 Beaulne, Quebec Soc. Protec. Pl. R. 20: 84; 1928.  
 iBrittain, N. S. Dept. Nat. Resource B. 12, 82-83, 1927.  
 iCaesar, Ont. Dept. Agr. B. 325, 24-26, 1927.  
 Caesar, Ont. Veg. Grow. Assoc. R. 22, 17, 1927.  
 bGarman, Conn. B. 294, 278-279, 1928.  
 iGibson & Twinn, Can. Dept. Agr. B. 112, 60, 1929.  
 Glasgow, New York Geneva C. 100, 5, 1927.  
 iGlasgow & Gaines, J. Ec. Ent. 22, 412-416, 1929.  
 Gorham, Maritime Farm. 34: 20; 16, 1929.  
 Headlee, N.J. Hort. Soc. Proc. f. '26, 30.  
 iHerrick, Rur. N. Y. 84, 510, 1925.  
 Herrick, Rur. N. Y. 88, 735-736, 1929.  
 iMacLeod, Penn. St. Coll. C. 122, 25, 1929.  
 Spittall, Proc. Acadian Ent. Soc. 10, 63, 1925.  
 T. H. B., Rur. N. Y. 85, 833, 1926.  
 Whitcomb, Market Grow. J. 39; 5, 51, (759), 1926.  
 iWhitcomb, J. Ec. Ent. 22, 672-675, 1929.  
 Whitcomb, Mass. B. 247, 319, 1929.
- Psilacron congalla, gordiana**  
 nSchaus, P.U.S.N.M. 73; 19, 16-17, 1928.
- Psilocephala albertensis**  
 niCole, Can. Ent. 57, 86-87, 1925.
- Psilocephala davisii**  
 nJohnson, Psyche 32, 300-301, 1925.
- Psilocephala monensis**  
 nCurran, Amer. Mus. Nov. 220, 2, 1926.
- Psilocephala subnotata**  
 nJohnson, Psyche 32, 299-300, 1925.
- Psilocephala vexans**  
 nCurran, Amer. Mus. Nov. 220, 2-3, 1926.
- Psiloconopa gaspicola**  
 nAlexander, N. Y. Ent. Soc. J. 37, 54-55, 1929.
- Psiloconopa mormon**  
 nAlexander, Pan-Pacific Ent. 3, 144-145, 1927.
- Psilocorsis cryptolechiella**  
 iLeiby, N. C. Dept. Agr. B. Feb. 1925, 33-35.
- Psilocurus nudiusculus**  
 Painter, Ent. News 37, 154, 1926.
- Psilodryinus gracilis**  
 niFenton, P.U.S.N.M. 72; 8, 2-3, 1928.
- Psilogaster partiglabra**  
 nGirault, Ins. Insc. Mens. 14, 131, 1926.
- Psiloneura flavisquama, sp.**  
 nAldrich, P.U.S.N.M. 69, Art. 22, 23-24, 1926.
- Psilopa mentita**  
 nCresson, Trans. Amer. Ent. Soc. 51, 245, 1925.
- Psilopa unica**  
 nCresson, Trans. Amer. Ent. Soc. 52, 250, 1926.
- Psilophryioidea**—n. gen., *comesor*  
 nCompere, Calif. Univ. Pub. Ent. 4; 8, 214-215, 1928.
- Psiloptera bahamica** 60, **Key** 48  
 nFisher, U.S.N.M.P. 65; Art. 9, 1925.
- Psilopus albihirtus**  
 nVan Duzee, Psyche 36, 38, 1929.
- Psilopus angustatus** 9-11, *bilobus* 3  
 niVan Duzee, P.U.S.N.M. 74; 10, 1928.
- Psilopus caudatus**  
 iVan Duzee, Ent. News 38, 74, 1927.

*Psilopus clavatus*

nVan Duzee, P.U.S.N.M. 74; 10, 15-16, 1928.

*Psilopus cockerelli*

nVan Duzee, Ent. News 38, 73-74, 1927.

*Psilopus cylindricus, flaviannulatus*

niVan Duzee, P.U.S.N.M. 74; 10, 9, 13-14, 1928.

*Psilopus fuscinervis*

nVan Duzee, Can. Ent. 58, 56-57, 1926.

*Psilopus graenicheri*

nVan Duzee, Ent. News 38, 73, 1927.

*Psilopus longipennis* 8-9, *longipes* 3-4,

*mentor* 6-7, *nitidicauda* 12-13, *panamensis* 12

niVan Duzee, P.U.S.N.M. 74; 10, 1928.

*Psilopus parvicauda*

nVan Duzee, Ent. News 38, 72-73, 1927.

*Psilopus planipes*

niVan Duzee, P.U.S.N.M. 74; 10, 6, 1928.

*Psilopus salti*

nVan Duzee, Psyche 36, 37, 1929.

*Psilopus semiciliatus* 11, *semicomatus* 4-6, *simulans* 16-17.

niVan Duzee, P.U.S.N.M. 74; 10, 1928.

*Psiloscelis carri*, sp.—Key

nHatch, Can. Ent. 58, 273-276, 1926.

*Psilota fasciata*

nCurran, Ann. Ent. Soc. Amer. 22: 494, 1929.

*Psilota nigra*

nShannon, Proc. Ent. Soc. Wash. 29, 83, 1927.

*Psilota victoria*

Curran, Amer. Mus. Novit. 176, 7, 1925.

*Psilothrips*—n. gen., *pardalotus*

nHood, Proc. Biol. Soc. Wash. 40, 198, 1927.

*Psithyrus fernaldae*

Frison, Trans. Amer. Ent. Soc. 52, 145, 1926.

*Psithyrus laboriosus*

Frison, Ann. Ent. Soc. Amer. 19, 214-221, 1926.

iPlath, Brooklyn Ent. Soc. B. 22, 121-125, 1927.

*Psithyrus mysticus*

nFrison, Trans. Amer. Ent. Soc. 51, 138-139, 1925.

*Psithyrus variabilis*

Frison, Ann. Ent. Soc. Amer. 19, 205-214, 1926.

*Psithyrus wheeleri*

nbiBequaert & Plath, B. Harvard Mus. Comp. Zool. 67, 265-267, 1925.

*Psocidae*—Classification

Banks, Psyche, 36, 321-325, 1929.

*Psorophora lutzia*

Dunn, Amer. Jr. Trop. Med. 9, 499-500, 1929.

Shannon, J. Wash. Acad. Sci. 15, 137-138, 1925.

*Psorophora* sp.—Key

Dyar, Insec. Ins. Mens. 13, 132, 1925.

*Psoroptes communis* (Scab mite)\*

Bowstead & Sackville, Univ. Alberta Coll. Agr. B. 19, 74, 1928.

Imes, U.S.F.B. 1017, rev. 1928.

iImes, U.S.F.B. 1493, 9-12, 1926.

Wright, Md. Agr. Soc. R. 13, 380, 1928.

*Psoroptes communis cuniculi*

iSchwartz & Shook, U.S.F.B. 1568, 3-5, 1928.

*Psoroptes communis ovis* (Sheep scab mite)\*

Imes, U.S.F.B. 713, 1928.

Miller, Ohio B. 386, 157, 1925.

Stevenson, Ont. Dept. Agr. B. 337, 26, 1928.

Amer. Sheep Breeder & Wool Grow. 45, 564, 1925.

*Psorosina hammondi* (Apple leaf skeletonizer)\*

Britton, Mass. Fr. Grow. Assoc. R. 31, 125, 1925.

Dean, Kan. Ent. Com. Bien. R. 10, 29-30, 1927.

Herrick, Rur. N. Y. 84, 824, 1925.

Kelsall, Nova Scotia Fr. Grow. Assoc. R. 65, 73-74, 1929.

*Psychidae*—Mating of

iJones, Trans. Amer. Ent. Soc. 53, 293-315, 1927.

*Psychoda albipuncta* 149, *alfaroana* 110

Dyar, Ins. Insc. Mens. 14, 1926.

*Psychoda alternata* (Sewage filter fly)

iDyar, Ins. Insc. Mens. 14, 105-106, 1926.

iTurner, Biol. B. 48, 128-138, 1925.

Nation's Health 7; 6, 436, 1925.

- Psychoda* (*Pericoma*) *augusta*  
nCurran, Can. Ent. 58, 228, 1926.
- Psychoda busckana* 109, *dakotensis* 108-109, *grabhamama* 110  
nDyar, Ins. Insc. Mens. 14, 1926.
- Psychoda heliciis*  
nDyar, Proc. Ent. Soc. Wash. 31, 64, 1929.
- Psychoda interdicta*  
niDyar, Proc. Ent. Soc. Wash. 30, 88, 1928.
- Psychoda* (*Pericoma*) *juno*  
nCurran, Can. Ent. 58, 228-229, 1926.
- Psychoda marginalis, nigra*  
Dyar, Proc. Ent. Soc. Wash. 30, 87-88, 1928.
- Psychoda phalaenoides*  
iDyar, Ins. Insc. Mens. 14, 103-105, 1926.
- Psychodidae*  
iDyar, Proc. Ent. Soc. Wash. 29, 162-164, 1927; 30, 87-89, 1928.
- Psychodoidea*—Thoracic sclerites  
iCrampton, Ent. News 37, 33-39, 65-70, 1926.
- Psychonoctua lillianae*  
nLindsey, Univ. of Iowa Stud. Nat. Hist. 11; 7, 35, 1926.
- Psychonoctua unilinea*  
nDyar, Ins. Insc. Mens. 13, 19, 1925.
- Psylla, sec Psyllia*
- Psyllaephagus trioziphagus*  
Eddy, Ohio J. Sci. 27, 196, 1927.
- Psyllia alni*  
iFerris, Can. Ent. 57, 48, 1925.
- Psyllia buxi* (*Boxwood psyllid*)  
iFerris, Can. Ent. 58, 19-20, 1926.  
iHamilton, N. J. C. 179, 8-11, 1926.
- Psyllia mali* (*Apple sucker*)\*  
iBrittain, Biol. *Psyllia mali*, Cornell Univ. Thesis 1923, 69, 20 p.  
Brittain, Fr. Grow. Assoc. Nova Scotia R. 61, 63-65, 1926.  
iBrittain, N. S. Dept. Nat. Resource B. 12, 52-53, 1927.  
iDustan, Can. Dept. Agr. Pam. 45, new ser. 1924, 13 p.  
Dustan, Proc. Acad. Ent. Soc. 10, 55-57, 1925.  
Gilliatt, Proc. Acadian Ent. Soc. 10, 46-54, 1925.
- Kelsall, Fr. Grow. Assoc. Nova Scotia R. 61, 96-97, 1925.
- McLaine, Ont. Ent. Soc. R. 57, 21, 1927.
- Spittall, Proc. Acadian Ent. Soc. 10, 61, 1925.
- Spittall, Ont. Ent. Soc. R. 58, 11, 1928.
- Psyllia pyricola* (*Pear Psylla*)\*  
Bourne, Mass. Fr. Grow. Assoc. R. 35, 120-212, 1929.
- iBrittain, N. S. Dept. Nat. Resource B. 12, 51-52, 1927.
- Caesar & Ross, Ont. Ent. Soc. R. 58, 22, 1928.
- Crosby, et al, N.Y.C.B. 498, 47-50, 1929.
- Dutton & Genter, Mich. Ext. B. 61, 1928.
- Felt, N. Y. St. Hort. Soc. Proc. 70, 59, 1925.
- Fernald, Applied Ent. ed. 2, 194-196, 1926.
- Gardner, Mich. R. 1926-1928, 15, 1928.
- biGarman, Conn. B. 275, 292-295, 1926.
- Gentner, Mich. St. Hort. Soc. Ann. R. 57, 199-206, 1927.
- biHartzell, N. Y. Geneva B. 527, 1925, 123 p.
- Hartzell, N. Y. St. Hort. Soc. Proc. 70, 41-43, 1925.
- Hartzell, Can. Hort. 49, 137, 1926.
- Hartzell & Gambrell, N. Y. Gen. C. 98, 1928, 4 p.
- Mundinger, N. Y. Geneva B. 529, 3-36, 1925.
- Mundinger, N. Y. St. Hort. Soc. Proc. 70, 182-186, 1925.
- Mundinger, Proc. N. Y. St. Hort. Soc. 72, 143-144, 1927; 73, 189-193, 1928.
- iOdell, N. Y. Gen. B. 549, 1927, 19 p.
- Parrott, Proc. N. Y. Hort. Soc. 72, 7, 1927.
- Ross, Ont. Ent. Soc. R. 55, 80-84, 1925.
- Ross, Ont. Fr. Grow. Assoc. R. 57, 77-81, 1925.
- Ross, Mich. St. Hort. Soc. R. 59, 119-124, 1929.
- iRoss, Can. Dept. Agr. Ent. Br. Pam. 66, n.s., 1926, 8 p.
- Ross, Ont. Ent. Soc. R. 56, 40-44, 1926.
- Ross, Ont. Fr. Grow. Assoc. R. 59, 7-10, 1927.

**Psyllia pyricola** *Cont'd*

Ross, Sci. Agr. 7, 395, 1927.

Ross, Canadian Hort. Fr. & Truck ed. 41, 26, 1928.

iRoss, Fruits & Gardens 27: 4, 4, 13, '29.

Ross, Internat. Cong. Ent. 4, Tr. 2, 397-400, 1929.

Ross & Caesar, Ont. Ent. Soc. R. 59, 19, 1929.

Strickland, Mich. Hort. Soc. R. 54, 16-21, 1925.

Strickland, N. Y. Dept. Farms & Markets C. 292, 29-31, 1925.

Taylor, Mich. St. Hort. Soc. R. 59, 94, 1929.

Thatcher, N. Y. Geneva R. 4, 44, 36, '25.

——Mich. Hort. Soc. R. 53, 15-16, 1923.

iN. Y. Geneva Pop. B. 527, 1926, 15 p.

**Psyllia striata** (Birch psyllid)

Felt, N. Y. St. Mus. B. 267, 43, 1926.

**Psylliodes convexior**

Brisley, Trans. Amer. Ent. Soc. 51, 179, 1925.

**Ptenidium californicus**

nPsota & Ray, Can. Ent. 61, 119, 1929.

**Pterochlorus rosae**

Knowlton, Pan-Pac. Ent. 6, 33-34, '29.

**Pterocroce storeyi**

ibWheeler, Psyche, 36, 313-320, 1929.

**Pterogramma n. subgen.**

Spuler, Can. Ent. 57, 100, 1925.

**Pteroloma arizonica** 24-25, *caraboides*

22, *forsstroemi* 21-22, *koebelei* 25-26, spp. 19-27

iVan Dyke, Bklyn. Ent. Soc. B. 23, 1928.

**Pteroloma tahoea**

nFall, Can. Ent. 59, 136-137, 1927.

iVan Dyke, Bklyn. Ent. Soc. B. 23, 24, 1928.

**Pteromalidae**

Balduf, Can. Ent. 58, 159-160, 1926.

**Pteronarcella badia**

iNeedham & Christenson, Utah B. 201, 18, 1927.

**Pteronarcys californica**

Muttkowski, N. Y. St. Col. Forestry B. 2, 185-189, 1929.

iNeedham & Christenson, Utah B. 201, 17-18, 1927.

**Pteronarcys regalis**

Fernald, Applied Ent. ed. 2, 72-73, '26.

**Pteronidea nigriventris**

nCurran, Can. Ent. 58, 233-234, 1926.

**Pteronidea ribesii**, *see* **Pteronius ribesii****Pteronidea ventralis** (Yellow-spotted willow slug)

ideGryse, Can. Dept. Agr. Ent. Br.

Pam. 47, n.s. rev. ed., 21, 1925.

Peirson, Me. For. Serv. B. 5, 123, 1927.

iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 31, 1926.

**Pteronius ribesii** (Imported currant worm)\*

iBrittain, N. S. Dept. Nat. Resource B. 12, 59, 1927.

iBritton & Zappe, Conn. B. 292, 129-130, 1927.

iCaesar, Ont. Dept. Agr. B. 318, 20, 1926.

Darrow, U.S.F.B. 1398, rev. 1929, 15.

Fernald, Applied Ent. ed. 2, 343, 1926.

Keen, Dak. Farm. 45, 866, 1925.

Keen, Market Grow. J. 38, 527, 1926.

Park, Farm & Ranch Rev. 24; 12, 45-46, 1929.

Sears, Productive Small Fruit Cult. ed. 2, 257-258, 1925.

Spittall, Proc. Acad. Ent. Soc. 10, 67, 1925.

Walden, Conn. B. Immed. Inf. 34, 1924, 2 p.

**Pteronius ventralis**, *see* **Pteronidea ventralis****Pteronius integer** (Spruce sawfly)

Peirson, Me. For. Serv. B. 5, 117, 1927.

**Pterophoridae—Canada**

McDunnough, Ray. Soc. Can. Trans. 3, ser. 5, sec. 21, 17-179, 1927.

**Pterophylla camellifolia—Song**

Allard, Smithson. R. f. 1928, 575-576, 1929.

iBrownell, Nat. Mag. 8, 78, 1926.

Davis, J. N. Y. Ent. Soc. 34, 36-37, 1926.

iWatson, Fla. B. 183, 408, 1926.

**Pterostichus beyeri** 71-73, *brunneus* 69-70, *falli* 73-74

nVan Dyke, Pan-Pac. Ent. 2, 1925.

- Pterostichus horni**  
Van Dyke, Pan-Pac. 3, 196, 1927.
- Pterostichus lanei**  
nVan Dyke, Pan-Pac. Ent. 2, 76, 1925.
- Pterostichus niger**  
blEastham, Internat. Cong. Ent. 4, Tr. 2, 546-551, 1929.
- Pterostichus pacificus, rufofemoralis**  
nVan Dyke, Pan-Pac. Ent. 2, 113-115, 1926.
- Pterostichus termitiformis**  
nVan Dyke, Pan-Pac. Ent. 2, 74-76, '25.
- Pterygophoromyia**—n. subgen.  
nShannon, J. Wash. Acad. Sci. 14, 42, 1927.
- Ptilodexia harpasa**  
Box, P. R. Dept. Agr. J. 9, 351, 1925.
- Ptilodexia hucketti** 131, incerta 132, leucoptera 132, minor 132-133, obscura 133, proxima 133-134  
nWest, J.N.Y. Ent. Soc. 33, 1925.
- Ptilomyia**, n. gen. 8, micropalpus 9, plumata 8-9  
nCurran, Amer. Mus. Novit. 176, 1925.
- Ptinus agnatus in adobe walls**  
Essig, Pan-Pac. Ent. 3, 194, 1927.
- Ptinus brunneus** (Brown spider beetle)\*  
Gibson & Twinn, Can. Dept. Agr. B. 112, 33, 1929.
- Ptinus fur** (White-marked spider beetle)\*  
Curran, Ont. Ent. Soc. R. 55, 28-29, 1925.  
Gibson & Twinn, Can. Dept. Agr. B. 112, 33, 1929.  
Spencer, Ont. Ent. Soc. R. 59, 38, 1929.
- Ptinus ocellus**  
nBrown, Can. Ent. 61, 109, 1929.
- Ptinus villiger**  
Curran, Ont. Ent. Soc. R. 55, 29, 1925.  
iGibson & Twinn, Can. Dept. Agr. B. 112, 33, 1929.
- Ptochiomera spp.**—Revision  
Barber, J. N. Y. Ent. Soc. 36, 175-177, 1928.
- Ptomascopus**—Species, Key  
Hatch, J. N. Y. Ent. Soc. 35, 364, 1927.
- Ptychodes vittatus**  
Horton, U.S.F.B. 1031, rev. O. 1926, 29.
- Ptychomyia remota**  
nAldrich, Proc. Ent. Soc. Wash. 27, 13, 1925.  
Tothill, Smithsonian Local Notes Aug. 27, 1926, 1.
- Ptychoptera lenis**  
Needham & Christenson, Utah B. 201, 24-25, 1927.
- Pulex avium**  
Kaupp, O. K. Poult. J. 18, 445, 1929.
- Pulex irritans**—(Human flea)  
Beach & Freeborn, Cal. Ext. C. 8, 64, 1929.  
Carrion, P. R. Rev. Pub. Health 4; 2, 87, 1928.  
iChandler, Animal parasites ed. 3, 414, 1925.  
Dunn, Amer. Jr. Trop. Med. 9, 505, 1929.  
iFelt, N. Y. St. Mus. B. 274, 35, 1928.  
Hall, U.S.D.A. Dept. C. 338, 15, 1925.  
Maheux, Quebec. Soc. Protec. Pl. R. 18, 98, 1926.  
iTolhurst, Nature Mag. 6, 18, 1925  
Williams, U. S. Pub. Health R. 44, 455, 1929.
- Pulga americana**, see **Systema basalis**
- Puliciphora myrmecophila**—Mexico  
niBrues, Psyche, 32, 310-312, 1925.
- Pulp making bee**, see **Alcidamia producta**
- Pulvinaria acericola** (False cottony maple scale)  
Britton, Conn. B. 294, 298-299, 1928.  
Trimble, Pa. Dept. Agr. B. 8, 5-6, 1925.  
Trimble, Pa. Dept. Agr. Gen. B. 480, 6, 1929.
- Pulvinaria amygdali** (Cottony peach scale)\*  
Felt, J. Ec. Ent. 18, 752, 1925.  
Felt, N. Y. St. Mus. B. 267, 37-38, 1926.  
Felt, N. Y. St. Hort. Soc. Proc. 73, 18-19, 1928.
- iHarman, N. Y. Geneva B. 542, 1927, 19 p.; B. 552, 1928, 22 p.
- Parrott, N. Y. Hort. Soc. Proc. 71, 23-29, 1926; 72, 8-9, 1927.
- Parrott & Harman, N. Y. Gen. C. 89, 1926, 8 p.



*Pulvinaria amygdali* *Cont'd*

- Parrott & Harman, J. Ec. Ent. 20, 146-150, 1927.  
 Thatcher, N. Y. Gen. R. 45-50, 1926.  
 Thatcher, N. Y. Geneva R. 46, 47, 1927.  
*Pulvinaria iceryi* (Sugarcane leaf scale)  
 iDozier, P. R. Dept. Agr. J. 9, 357-367, 1925.  
*Pulvinaria innumerabilis*, *see Pulvinaria vitis*  
*Pulvinaria psidii* (Green shield scale)\*  
 iWatson, Fla. B. 183, 326, 1926.  
*Pulvinaria pyriformis* (Pyriform scale)\*,  
*see Protopulvinaria pyriformis*  
*Pulvinaria vitis* (Cottony maple scale)\*  
 iBritton & Zappe, Conn. B. 292, 153, 1927.  
 iGillette & Langford, Colo. Ent. C., 46, 7, 1925.  
 Houser, Nat. Shade Tree Conf. R. 5, 73-74, 1929.  
 Lieber, Ind. Dept. Conserv. R. 8, 43-44, 1926.  
 Peirson, Me. For. Serv. B. 5, 85, 1927.  
 iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 50, 1926.  
 Pumpkin-bug, Southern green stink bug\*  
*see Nezara viridula*  
 Pumpkin insects  
 Houser, Canning Trade, 49: 27, 75-77, 1926.  
 Punkies, *see Ceratopogon* spp.  
 Purple mite or red-spider, *see Tetranychus citri*  
 \*Purple scale, *see Lepidosaphes becki*  
*Purpuricenus axillaris*  
 Champlain, Kirk & Knull, Ent. News 36, 139, 1925.  
*Purpuricenus humeralis*  
 Champlain & Kirk, Ent. News 37, 290, 1926.  
 Puss caterpillar, *see Megalopyge opercularis*  
 \*Putnam's scale, *see Aspidiotus ancylus*  
*Puto cupressi*  
 Keen, Cal. Dept. Nat. Resources B. 7, 90, 1928.  
*Pycnaulacus*—n. gen. 17-18, *brevicaudus* 18  
 nCushman, P.U.S.N.M. 76; 25, 1929.

*Pycnoderes balli*

- nKnight, Bklyn. Ent. Soc. B. 21, 104-105, 1926.  
*Pycnoderes convexicollis*  
 nBlatchley, Ent. News 37, 166-167, 1926.  
*Pycnoderes drakei* 106, *infuscatus* 106-107, *medius* 105  
 nKnight, Bklyn. Ent. Soc. B. 21, 1926.  
*Pycnoderes quadrimaculatus* (Hump-backed melon bug)  
 Morrill, J. Ec. Ent. 18, 713, 1925.  
 Morrill, Cal. Dept. Agr. Sp. Pub. 73, 76, 1927.  
*Pycnoglossa varipes*  
 nCurran, Can. Ent. 59, 255, 1927.  
*Pycnopota manni*  
 niBezzi, Proc. U. S. Nat. Mus. 68, Art. 20, 1926, 6 p.  
*Pycnoscelus surinamensis* (Surinam roach)\*  
 iCaudell, Proc. Ent. Soc. Wash. 27, 154-157, 1925.  
 bDoucette & Smith, J. Ec. Ent. 19, 650-656, 1926.  
 Drake, Iowa Yrbk. Agr. 28, 140, 1928.  
 Hoffman, J. Ec. Ent. 20, 237, 1927.  
 Shealy, Fla. R. 1927, 79R-81R.  
 —Conn. B. 265, 337, 1925.  
*Pydna adjutrea* 85, *barasamphia* 87, *ercona* 87, *goddrica* 87-88, *marconia* 85-86, *odrana* 86, *ubalvia* 86, *hildora* 90  
 nSchaus, P.U.S.N.M. 73; 19, 1928.  
*Pygarcia murina*—Synonymy  
 Barnes & Benjamin, Pan-Pac. Ent. 3; 1, 18, 1926.  
*Pygothrips conifer, nigricauda*  
 nHood, Psyche, 32, 67-68, 1925.  
*Pyracmon albicinctum* 4-5, *fossatum* 6, *macdunnoughi* 5, *patulum* 5, *ruficinctum* 5-6  
 nViereck, Can. Ent. 58, 1926.  
*Pyracmon* spp.—Key  
 Viereck, Can. Ent. 57, 180-181, 1925.  
*Pyracmonoides* n. gen. 298, Key to spp. 177-178, *atypicum* 300, *lipoparium* 299, *separatum* 298-299, *succineum* 300, *trochantericum* 299  
 nViereck, Can. Ent. 57, 1925.

***Pyralis farinalis* (Meal moth)\***

iBack & Cotton, U.S.F.B. 1260, rev.  
Dec. 1925, 22-24.

iGibson & Twinn, Can. Dept. Agr. B.  
112, 32, 1929.

Mahecux, Quebec Soc. Protec. Pl. R. 18,  
105, 1926.

biPayne, J. Ec. Ent. 18, 224, 1925.

***Pyrameis cardui* (Painted lady)**

Brown, J. N. Y. Ent. Soc. 34, 367, 1926.

iDetmers, Ohio B. 414, 22-24, 1927.

Dow, J. N. Y. Ent. Soc. 34, 287-288, 1926.

***Pyrameis caryae***

iSchrader, So. Cal. Acad. Sci. B. 28, 1,  
8-11, 20, 1929.

***Pyrameis huntera***

iMd. Acad. Sci. Quar. B. 6; 2, 29, 1927.

***Pyrausta ainsliei* (Smartweed borer)**

iCaffrey & Worthley, U.S.F.B. 1548, 44,  
1927.

Curtiss, Iowa R. f. 1927, 34.

Drake, Iowa Yrbk. Agr. 28, 130-131,  
1928.

iDrake & Decker, Iowa C. 103, 5, 1927.

iEllis, J. Agr. Res. 30, 780-783, 1925.

biPoos, Ohio J. Sci. 27, 47-94, 1927.

***Pyrausta cafreii*—Types**

Barnes & Benjamin, Proc. Ent. Soc.  
Wash. 27, 7, 1925.

***Pyrausta galactalis***

nDyar, Insecutor Ins. Mens. 13, 10, '25.

***Pyrausta nubilalis* (European corn borer)\***

Abbott, Ill. Farm. 75, 515, 1927.

Anderson, Nebr. Farm. 71, 1630, 1929.

Arnold, J. Farm. Ec. 10, 197-210, 1928.

iAshby, Wallace's Farm, 54, 900-914, '29.

bbBabcock, Ecology 8, 45-59, 1927.

biBabcock, Ecology 8, 177-193, 1927.

ibBabcock & Vance, U.S.D.A. Tech. B.  
135, 1929, 54 p.

iBade, Gard. Chronicle 32, 277, 1928.

Bailey, Vt. Agr. Bien. R. 13, 47-48, 1926.

Bailey, Vt. Agr. Bien. R. 14, 86-87, 1928.

bBall, J. Amer. Soc. Agron. 20, 1033-  
1047, 1928.

iBaranoff, Internat. Corn Borer Invest.  
Sci. R. 2, 128-130, 1929.

iBarber, Ecology 6; 1, 39-47, 1925.

iBarber, Psyche 32, 30-46, 1925.

Barber, Bankers' Assoc. Amer. Proc.  
13, 150-157, 1926.

Barber, Ecology 14, 143-162, 1926.

Barber, J. Agr. Res. 32, 1053-1068, 1926.

iBarber, U. S. Dept. Agr. C. 71, 1929, 13 p.

Barden, et al, Agr. Ent. 8, 308, 321,  
1927.

Barden & Silver, O. Ext. Serv. Euro-  
pean Corn Borer, 13, 1927, 4 p.

Bartley, Bur. Farm. 2; 10, Pa. Farm.  
Bur. News 2; 5, 14, 1927.

Bear, Ohio Ext. Serv., European Corn  
Borer, 4, 1926, 4 p.

iBentley, Tenn. Dept. Agr. Poster, 1929.

iBerly, S. C. C. 32, 22, 1924.

Boillot, Mo. Rur. 71; 10, 5-9, 1929.

iBrainard, N. Y. Cornell Ext. Div. Un-  
number. pub. 1928, 4 p.

Breaque, Wis. Dept. Agr. B. 98, 105-111,  
1928.

iBremer, Wallaces' Farm. 52, 1283, 1927.

iBriand, Can. Ent. 61, 51-54, 1929.

Britton, Market Growers J. 39, 945, 1926.

Britton, Conn. B. 285, 177-178, 1927.

Britton & Zappe, Conn. B. 265, 277-  
281, 1925; B. 285, 239-243, 1927; B.  
294, 246-256, 1928.

Brown, Can. Field Nat. 43; 5, 108, 1929.

iBurr, Nebr. Farmer 67, 1750, 1925.

iBurr, Nebr. Bd. Agr. R. f. '26, 241-247.  
C. L. L., Seed World 26; 11, 23, 1929.

iCaesar, Ont. Dept. Agr. C. 47, 1925, 8 p.

Caesar, Farm. Advoc. 61, 791, 1926.

Caesar, Farm. Advoc. 61, 936, 1926.

Caesar, Farm & Dairy, 46, 336, 1927.

Caesar, Farm. Advoc. 62, 1500, 1927.

iCaesar, Ont. Dept. Agr. B. 325, 38-40,  
1927.

Caesar, Ont. Ent. Soc. R. 57, 35-38, 1927.

Caesar, Ont. Veg. Grow. Assoc. R. 22,  
14-15, 1927.

iCaesar, Ont. Dept. Agr. B. 334, '28, 16 p.

Caesar, Ont. Dept. Agr.—Agr. & Exp.  
Union R. 50, 39-44, 1928.

Caesar, Farm & Dairy, 47, 454, 1928.

Caesar, Ont. Ent. Soc. R. 58, 51-54, 1928.

Caesar, Ont. Ent. Soc. R. 59, 49-52, 1929.

Caffrey, J. Ec. Ent. 18, 98-109, 1925.

*Pyrausta nubilalis* Cont'd

- ib-Caffrey, J. Amer. Soc. Agron. 20, 997-1010, 1928.  
 Caffrey, J. Ec. Ent. 22, 167-171, 1929.  
 Caffrey & Huber, J. Ec. Ent. 21, 104-107, 1928.  
 ib1Caffrey & Worthley, U.S.D.A.B. 1476, 1927, 153 p.  
 iCaffrey & Worthley, U. S. F. B. 1548, 1927, 47 p.  
 Chambers, Wis. Hort. Soc. Sup. 18; 11, 138, 1928.  
 iChambers, Wis. Dept. Agr. B. 98, 105-111, 1929.  
 iChapman, N. Y. St. Col. Agr. Ithaca (Leaflet) Dec. 1926, 4 p.  
 Christie, Ind. R. 37, 26, 1924.  
 Christie, Armour's Farmers' Almanac 1928, 23, 38-40.  
 iClark, Wis. B. 396, 97-100, 1927.  
 Collier, U.S.D.A. YB, 1927, 199-202, '28.  
 Comers, Market Grow. J. 42, 97, 1928.  
 iCompton, Ill. C. 297, 28-29, 1925.  
 Conrey, Ohio B. 431, 37-39, 1929.  
 iCooley, Am. Poult. J. 58, 153, F. 1927.  
 Cooley, Internat. Harvester Co. Agr. Ext. Dept. Pam. 264, 6 p. 1927.  
 Cox, Farming Topics 1; 1, 5-8, Dec. 1925.  
 Crawford & McLaine, J. Ec. Ent. 19, 124-127, 1926.  
 iCrawford & Maheux, Quebec Dept. Agr. B. 92, 1927, 16 p.  
 iCrawford & Maheux, J. Agr. & Hort. 30, 145-146, 1929.  
 Crissey, Sat. Eve. Post. 200, 37, Jl. 16, 1927.  
 Crooker, Canning Age 8, 403-407, 1927.  
 Crowell, N. H. Tech. B. 30, 1926, 19 p.  
 bCrowell, J. Ec. Ent. 20, 564-567, 1927.  
 iCrowell, Psyche 36, 332-357, 1929.  
 Curtiss, Canning Trade, 49; 8, 22, 1926.  
 Curtiss, Co-operative Manager and Farm. 16; 4, 37, 1926.  
 Curtiss, Country Gentleman 91; 12, 50, 1926.  
 Curtis, Agr. Rev. 21; 1, 9, 1928.  
 Curtiss, Bur. Farm. 4; 3, Iowa Farm. Bur. Messenger Nov. 1928, 20.  
 Curtiss, et al, Coop. Manager & Farm. 16; 3, 24, 1926.  
 iDavis, Ind. C. 138, 1926, 18 p.  
 Davis, Current Hist. 26; 85, Ap. 1927.  
 Davis, Purdue Agr. 22, 33, 1927.  
 Davis, Ind. Farm. Guide, 85, 116, 1929.  
 Dean, Calif. Cult. 65, 632, 1925.  
 Dean, J. Wash. Acad. Sci. 15, 136-137, 1925.  
 iDean, Kan. Bd. Agr. Bien. R. 25, 224-235, 1926.  
 Dean, et al, J. Ec. Ent. 20, 35-37, 1927.  
 iDeKruif, C. Gentl. 92; 5, 6, 7, 55-56, 1927.  
 iDeLoach, Amer. Poultry J. 56, 936, 1925.  
 iDibble, Mich. Quar. B. 195-197, 1929.  
 iDibble & Martson, Mich. Quar. B. 12; 1, 1-3, 1929.  
 iDrake, Iowa C. 100, 1926, 16 p.  
 biDrake, Iowa Yrbk. Agr. 26, 37-40, 1926.  
 Drake, Iowa Yrbk. Agr. 28, 122-129, 1928.  
 Dunlap, Fla. Dept. Agr. Quar. B. 37; 3, 35-38, 1927.  
 iEastman, Amer. Agr. 122; 16, 3, 1928.  
 Edgerton, Rur. N. Y. 86; 4960, 967, 1927.  
 Ellinger, Canning Trade, 49; 24, 16, '27.  
 iEllinger, Breeders Gaz. 93; 4, 14, 26, 1928.  
 iEllinger, Internat. Corn Borer Invest. Sci. R. 1, 223-231, 1928.  
 iEllinger, New Breeders' Gaz. 93; 3, 14, 1928.  
 Ellinger, New Breeder's Gaz. 93; 4, 24, 22, 1928.  
 Ellinger, New Breeder's Gaz. 93; 5, 24, p. 22, 1928.  
 Ellinger & Sachtleben, Internat. Corn Borer Invest. Sci. R. 1, 110-133, 1928.  
 Ellinger, Internat. Corn Borer Invest. Sci. R. 2, 166-168, 1929.  
 Faxon, Ohio Ag. Ext. European Corn Borer, 7, 1926, 4 p.  
 Faxon, Ohio Ext. Leaf. 7, 1926, 4 p.  
 Felt, N. Y. St. Mus. B. 260, 48, 1925.  
 Felt, N. Y. St. Mus. B. 267, 38-39, 1926.  
 Felt, J. Ec. Ent. 20, 65, 1927.  
 Felt, N.Y.C. Ext. B. 31, rev. 17 p., '27.  
 Felt, N. Y. St. Hort. Soc. Proc. 73, 15, 1928.

- Felt, N. Y. St. Mus. B. 274, 76-77, 1928.  
 Felt, N. Y. St. Mus. B. 274, 108-110, 1928.  
 iFernald, Applied Ent. ed. 2, 252-253, 1926.  
 iFleming, Farm. J. 50; 4, 11, 1926.  
 Flint, Farm Elevator 23, 11, 1928.  
 Flint, Canning Trade, 51; 30, 16, 1929.  
 Flint, Iowa Homestead, 74, 698, 1929.  
 iFlint, et al, Ill. C. 321, 1928, 15 p.  
 Flint & Dungan, Ill. Ext. C. 334, 1929, 1 p.  
 iFlint, Hackleman & Bauer, Ill. C. 313, 1927, 15 p.  
 Flint, et al, Ill. C. 313, 1-15, 1927.  
 Flint & Painter, Ont. Ent. Soc. R. 55, 56, 1925.  
 Fracker, Wis. Hort. 17, 50-52, 1926.  
 Fracker, Wis. Dept. Agr. B. 82, 82-87, 1927.  
 iFracker & Fluke, Wis. Hort. 16, 56, 1925.  
 iFracker & Fluke, Wis. B. 385, 1926, 8 p.  
 Gardner, Mich. R. f. 1926-28, 19.  
 iGibson & Twinn, Can. Dept. Agr. B. 112, 61-62, 1929.  
 Gjuric, Internat. Corn Borer Invest. Sci. R. 2, 182-183, 1929.  
 Glenn, Ill. Dept. Agr. R. 12, 19, 1929.  
 Gregory, Canning Trade, 49; 25, 26, 1927.  
 iGuyton & Brown, Pa. Dept. Agr. Gen. B. 469, 1928, 11 p.  
 iHadley, Penn. Dept. Agr. C. 2, 1925, 12 p.  
 iHadley, Penn. Stock & F. 50; 788, 1926.  
 Hadley, J. Ec. Ent. 20, 706, 1927.  
 iHanke, Hoard's Dairym. 72, 273, 284, 1927.  
 Harman, Mich. Bd. Agr. Rept. 65, 203-204, 1927.  
 Hartley, Farm & Dairy 16; 5, 14, 1929.  
 Hartman, Canning Trade, 49; 17, 28-30, 1926.  
 Hase, Internat. Corn Borer Invest. Sci. R. 1, 143-147, 1928.  
 Hase, Internat. Corn Borer Invest. Sci. R. 2, 77-84, 1929.  
 iHaseman, Mo. C. 160, 1927, 8 p.  
 iHergula & Vouk, Internat. Corn Borer Invest. Sci. R. 1, 201-222, 1928.  
 Herrick, Rur. N. Y. 86, 1120, 1927.  
 Hedrick, N. Y. (Geneva) R. 48, 17, 1929.  
 Hedrick, N. Y. (Geneva) R. 48, 56-58, 1929.  
 iHervey, N. Y. (Geneva) C. 107, 1-11, 1928.  
 Heymann, Ohio Farm. 160, 541, 1927.  
 iHiggins, New Breeder's Gaz. 91, 544, 557, 1927.  
 Hill, Gunn & Collier, Mich. Quar. B. 10, 2; 41-45, 1927.  
 Hodges, Grain World 102; 4, 45, 1929.  
 iHodgkiss, Penn. State F. 20; 10, Ap. '27.  
 iHodgkiss & Worthley, Penn. Ext. C. 108, 1926, 22 p.  
 Hough, Sci. Amer. 141, 126, 1929.  
 Houser & Huber, J. Ec. Ent. 22, 171-174, 1929.  
 Howard, U.S.D.A. Ent. R. f. 1925, 11-12.  
 Howard, U.S.D.A. Ent. R. f. 1926, 10-11.  
 Howard, U.S.D.A. Ent. R. f. 1927, 12-13.  
 Huber, Ohio Ag. Ext. European Corn Borer, 8, 1926, 4 p.  
 Huber, Ohio Ext. Leaf. 8, 1926, 4 p.  
 Huber, The Canner, 61; 26, 27, 1925.  
 Huber, The Canner, 63; 26, 33, 1926.  
 Huber, Ohio Farm. 164, 161, 1929.  
 Huber, et al, Canning Trade 50; 27, 16, 18, 1928.  
 Huber, Caffrey & Neiswander, Ohio Bi-Mo. B. 13, 3-8, 1928.  
 Huber & Neiswander, Canning Trade, 48; 39, 10, 12, 1925.  
 Huber & Neiswander, J. Ec. Ent. 18, 109, 1925.  
 iHuber & Neiswander, Ohio Ext. Serv. European Corn Borer, 12, 4, 1926.  
 Huber & Neiswander, J. Amer. Soc. Agron. 19, 128-137, 1927.  
 Huber & Neiswander, The Canner, 65; 11, 22, 1927.  
 Huber & Neiswander, J. Ec. Ent. 20, 337-341, 1927.  
 iHuber & Neiswander, Ohio Bi-Mo. B. 12; 1 (Whole no. 124) 3-13, 1927.  
 Huber & Neiswander, J. Ec. Ent. 21, 118-119, 1928.  
 iHuber & Neiswander, Ohio B. 431, 69-71, 1929.  
 Huber, Neiswander & Salter, Ohio B. 420, 1928, 196 p.

*Pyrausta nubilalis* Cont'd

- Hyde, Grain Dealers, Jr. 63, 730, 1929.  
 Jablonowski, Internat. Cong. Ent. 4, Tr. 2, 455-462, 1929.  
 iJohnston & Arnold, Ohio Ext. B, 79, 1929, 24 p.  
 iJones & Caffrey, U.S.D.A.C. 14, 27, 8 p.  
 ilJudd, Ill. F. 75, 57, F. 1, 1927.  
 Keenan, Ont. Ent. Soc. R. 55, 47-50, 1925.  
 Keenan, Ont. Ent. Soc. R. 56, 75-77, 26.  
 Keenan, Ont. Ent. Soc. R. 57, 24-27, 27.  
 Keenan, Ont. Ent. Soc. R. 58, 56-59, 1928.  
 Kelsey, Ohio F. 156; 301, O. 3, 1925.  
 Kelsey, Ohio F. 158; 373, O. 16, 1926.  
 Kelsey, Ohio F. 159: 517, Ap. 16, 1927.  
 Kelsey, Ohio F. 159; 633, My. 14, 1927.  
 Kelsey, Ohio F. 160; 345, O. 8, 1927.  
 Kendall, N. H. B. 216, 7, 1925.  
 Kendall, N. H. B. 221, 11-12, 1926.  
 iKnechtel & Ionescu, Internat. Corn Borer Invest. Sci. R. 1, 194-200, 1928.  
 bKotlan, Internat. Corn Borer Invest. Sci. R. 2, 90-97, 1929.  
 Krogh, Internat. Corn Borer. Invest. Sci. R. 1, 148-152, 1928.  
 Larrimer, Agr. Rev. 21: 6, 10, 1928.  
 Larrimer, Bur. Farm. 4; 3, Ill. Agr. Assoc. Sec. Nov. 1928, 18 p.  
 Larrimer, Farm & Dairy, 15: 6, 1, 1928.  
 Larrimer, J. Ec. Ent. 21, 93-104, 1928.  
 Larrimer, J. Wash. Acad. Sci. 18, 385-386, 1928.  
 Larrimer, Canning Trade, 52; 11, 25, 1929.  
 Larrimer, Farm & Dairy, 16; 8, 7, 1929.  
 Larrimer, Ind. Farm. Guide, 85, 1265, 1929.  
 ibLarson, Internat. Corn Borer Invest. Sci. R. 2, 146-159, 1929.  
 Latshaw, Coop. Mgr. & Farm. 15; 6, 29, 1926.  
 Lieber, Ind. Dept. Conserv. R. 7, 51-53, 1925.  
 Lieber, Ind. Dept. Conserv. R. 10, 39-45, 1928.  
 Lloyd, Ohio F. 155; 498, Ap. 11, 1925.  
 Lloyd, Wallace's Farm. 50, 576, 589, 1925.  
 Lloyd, Amer. Fert. 65; 8, 34-36, 1926.  
 Lloyd, Ohio F. 158: 345, O. 9, 1926.  
 Lloyd, Ohio F. 159: 385, Mr. 19, 1927.  
 Lloyd, Ohio F. 159: 765, Je. 18, 1927.  
 Lloyd, Bur. Farm. 3; 11, Ill. Agr. Assoc. Sec. July 1928, 17.  
 Linz, Seed World & Amer. Seedman, 26; 13, 9, 1929.  
 iMcCartney, Successful Farming 24; 5, 12, 1926.  
 McClintock, Ohio Ext. Leaf. 6, 26, 4 p.  
 McClintock, Ohio Ext. Serv. European Corn Borer 6, 1926, 4 p.  
 McKim, Wallace's Farmer 51, 1350, 26.  
 McLaine, Ont. Ent. Soc. R. 57, 21, 1927.  
 McLaine, Quebec Soc. Protec. Pl. R. 19, 19-21, 1927.  
 McLaine & Crawford, J. Ec. Ent. 18, 95-98, 1925.  
 McLaine & Crawford, J. Ec. Ent. 20, 341-344, 1927.  
 McLaine & Crawford, Canning Trade, 50; 23, 38, 1928.  
 McLaine & Crawford, J. Ec. Ent. 21, 86-87, 1928.  
 iMcWheelock, Nat. Stock & F. 49; 872, D. 26, 1925.  
 McWheelock, Penn. Stock & Farm. 51, 614, 1927.  
 Marlatt, U.S.D.A., F.H.B. R. f. 1925, 5.  
 Marlatt, Wallaces' Farm. 52, 390, 1927.  
 Marlatt, U.S.D.A., Ent. R. f. 1928, 12-13.  
 Marlatt, U.S.D.A. Ent. R. f. 1929, 8-9.  
 Marlatt, J. Ec. Ent. 22, 195-198, 1929.  
 Marlatt, South. Flor. 28; 6, 7, 1929.  
 Marston, Farm & Dairy, 48, 556, 1929.  
 Marston, Ont. Ent. Soc. R. 59, 43-45, 29.  
 Martin, Ont. Dept. Agr. R. f. 1928, 41-42, 1929.  
 Mayo, Fla. Dept. Agr. Quar. B. 36; 2, 118-123, 1926.  
 Metelnikov & Chorine, Internat. Corn Borer Invest. Sc. R. 2, 22-37, 1929.  
 Mohler, Vet. Med. 24, 70, 1928.  
 iMohler, Kans. St. Bd. Agr. Quar. R. 48, 191, 212-216, 1929.  
 Murray, Wis. Country Mag. 23, 2, 6, 18, 1929.  
 Musselman, Canning Trade, 49; 24, 24, 26, 1927.

- Neiswander, Conrey & Huber, O. Bi-Mo. B. 13; 1, 8-12, 1928.
- Neiswander & Huber, J. Ec. Ent. 20, 345-351, 1927.
- Nissley, N. J. Agr. 11; 10, 3, 1929.
- iO'Brien, C. Gentl. 92, 2, 18-19, 1927.
- O'Brien, C. Gentl. 92; 12, 21, 62, 1927.
- iO'Brien, Farm. J. 51, 1, 9, 1927.
- O'Brien, Jamaica Ag. Soc. J. 31, 151-152, Ap. 1927.
- iO'Brien, Succ. F. 25; 1, 12-13, Jan. 1927.
- iO'Brien, Successful Farming 25; 6, 10-11, 1927.
- iO'Brien, C. Gentlm. 93; 12, 14, 115, 1928.
- O'Kane, N. H. Dept. Agr. Bien. R. 8, 266-269, 1928.
- O'Kane & Lowry, N. H. Tech. B. 33, 1927, 39 p.
- Osborn, C. Gentlem. 91; 2, 86, 1926.
- iOsborn, Ohio Ag. Ext. Eu. Corn Borer 1, 1926, 4 p.
- iOsborn, Ohio Ag. Ext. Eu. Corn Borer 9, 1926, 4 p.
- Osborn, Ohio Ext. L. 1, 1926, 4 p.
- Painter & Ficht, Ont. Ent. Soc. R. 55, 53-54, 1925.
- Parent, Quebec. Min. Agr. R. 1927-28, 189-191, 1928.
- ibParker, et al, J. Ec. Ent. 22, 183-195, 1929.
- Parker, et al, J. Ec. Ent. 22, 688-693, 1929.
- Parker & Thompson, Ann. Ent. Soc. Amer. 20, 10-22, 1927.
- Parkin, The Canner, 64; 12, 25, 1927.
- Parks, Ohio Ag. Ext. Crop Talk, 28, 1925, 4 p.
- Parks, Banker F. 13; 2-3, My. 1926.
- Parks, Ohio Ag. Ext. European Corn Borer, 2, 1926, 4 p.
- iParks, Ohio Ext. Serv. European Corn Borer 3, 1926, 4 p.
- Parks, Ohio Ext. L. 2, 1926, 4 p.
- iParks, Ohio Ext. L. 3, 1926, 4 p.
- Parks, Ohio Ext. Serv. Eu. Corn Borer 10, 1926, 4 p.
- Parks, Ohio Ext. Leaf. 10, 1926, 4 p.
- Parks, Ohio Farm. 162, 448-471, 1928.
- Parks, Ohio Veg. Gr. Assoc. Proc. 13, 84-89, 1928.
- Parks, Ohio Farm. 164, 223, 1929.
- Parks, et al, Ohio Ag. Ext. European Corn Borer 5, 1926, 4 p.
- Parks et al, Ohio Farm. 164, 284, 1929.
- Parks & Hanger, Ohio Ext. Serv., Crop Talk 29, 1925, 4 p.
- Parks & Montgomery, Ohio Ext. Eu. Corn Borer Leaf. 11, 1926, 4 p.
- bPatch, J. Ec. Ent. 22, 174-183, 1929.
- Pendergast, Gopher Countrym. 7; 2, 8, 28, 29, 1929.
- Pettit, Mich. C. 70, Nov. 1925, 14 p.
- iPettit, Mich. Quar. B. 8, 59-61, 1925.
- iPettit, Mich. Ent. R. f. 1926, 21-22.
- iPettit, Mich. Ent. R. f. 1927, 5-6.
- iPettit, Mich. St. Bd. Agr. R. 66, 341-342, 1928.
- iPettit, Mich. C. 70, 1928, 15 p.
- iPettit, Mich. Sp. B. 183, 49-52, 1929.
- Pettit, Mo. Farm. 21, 385, 1929.
- iPiper, N. Eng. Homestead. 99; 22, 3, 7, 1929.
- iPolivka & Herr, Ohio Bi-Mo. B. 138, 103-105, 1929.
- bPoos, Ohio St. Univ. Thesis 1926, 94 p.
- biPoos, Ohio J. Sci. 27, 47-94, 1927.
- Purnell, Cong. Rec. 68: 37, 2447-2451, 1927.
- Purnell, Farmer 46, 284, 1928.
- iPyrke, N. Y. Dept. Agr. & Markets Legis. Doc. 37, 94-96, 1928.
- Rabate, Internat. Corn Borer Invest. Sci. R. 2, 165-166, 1929.
- Ramsower, Ohio Ext. B. 79, 1929, 24 p.
- Rather, Mich. Ext. B. 59, 1927, 4 p.
- iRather, Mich. Farm. 173, 395, 1929.
- iRather, Mich. Farm. 178, 405, 421, 1929.
- lRaymond, J. Agr. & Hort. 31, 161, 1928.
- iReed, Ag. Eng. 7, 305-308, S. 1926.
- Reed, Dairy Farm. 25; 8, 23, 1927.
- iReed, Agr. Eng. 9, 37-44, 1928.
- Reed & McCuen, Breeder's Gaz. 89, 746, 1926.
- iReed & Worthley, Bur. Farm. 2; 11, 7, 22, 1927.
- Reynolds, Rur. New Yorker 86, 735, 1927.

*Pyrausta nubilalis* Cont'd

- iRidgway, Bur. Farm. 2; 7, 3-4, 18, '27.  
 Roubaud, Internat. Corn Borer Invest.  
 Sci. R. 1, 2, 1928.  
 Roubaud, Internat. Corn Borer Invest.  
 Sci. R. 1, 27-36, 1928.  
 Roubaud, Internat. Corn Borer Invest.  
 Sci. R. 1, 37-40, 1928.  
 iRoubaud, Internat. Corn Borer Invest.  
 Sci. R. 1, 8-13, 1929.  
 Roubaud, Internat. Corn Borer Sci. R.  
 2, 1-21, 1929.  
 Roux, Internat. Corn Borer Invest.  
 Sci. R. 2, 164, 1929.  
 Ruggles, Coop. Manager, 18; 8, 27, 1929.  
 biRuggles & Arny, Minn. Ext. Sp. B.  
 116, 1927, 8 p.  
 Ruggles & Arny, Jersey B. 46, 2397,  
 1927.  
 iRussell, J. Agr. & Hort. 30, 115, 1927.  
 Salter & Thatcher, J. Amer. Soc. Agron.  
 19, 137-153, 1927.  
 biSalter, Thatcher & McClure, J. Amer.  
 Soc. Agron. 20, 1011-1032, 1928.  
 Sando, Minn. Hort. 54, 158, My. 1926.  
 Shaw, Ohio Farm. 62, 321, 1928.  
 Sherman, Am. Bankers Assoc. J. 20,  
 945, 1928.  
 Sherman, South. Cult. 87; 15, 5, 1929.  
 Siegescu, Internat. Corn Borer Invest.  
 Sci. R. 2, 17-21, 1929.  
 Siegescu, Internat. Corn Borer Invest.  
 Sci. R. 2, 176-180, 1929.  
 Silver & Barden, Europ. Corn Borer  
 Leaf, 14, 1928, 8 p.  
 Simon, Breeder's Gaz. 90, 200-201, 1926.  
 Slate, Conn. B. 274, 194, 1926.  
 Slate, Conn. B. 291, 95, 1927.  
 iSlate, Conn. B. 298, 119, 1928.  
 Smith, W. Va. Dept. Agr. Bien. R. 8,  
 42, 1929.  
 Stahl, Nebr. Farm. 71, 1887, 1915, 1929.  
 Stahl, Hoard's Dairym. 74, 765, 1929.  
 Steen, C. Gentlm. 94; 6, 15, 114, 1929.  
 Stewart, Better Crops 13; 2, 18, 1929.  
 iStirrett, Ont. Ent. Soc. R. 59, 40-43, 1929.  
 Tapp, U.S.D.A. YB, 1927, 207-210, '28.  
 Tapp, U.S.F.B., 1562, rev. 1928, 20 p.  
 Thatcher, Ohio Mo. B. 10; 3, 4, 52, 1925.  
 Thompson, Ont. Ent. Soc. R. 59, 46-49,  
 1929.  
 bThompson & Parker, U.S.D.A. Tech.  
 B. 59, 1928, 62 p.  
 Transeau, Ecology 8, 285-288, 1927.  
 Triplett, Prairie Farm. 101, 1176, 1929.  
 Trullinger, Agr. Eng. 10, 379, 1929.  
 Underwood, Bur. Farm. (N. Y. ed.)  
 2; 14, Jl. 1927.  
 Vandenberg, Guam R. f. 1925, 18, 1926.  
 Vandenberg, Guam R. f. 1927, 15-17, '29.  
 iVogel, Iowa Agr. 30, 79, 95, 1929.  
 Vouk, Internat. Corn Borer Invest.  
 Sci. R. 2, 14-17, 1929.  
 Vouk, Internat. Corn Borer Invest. Sci.  
 R. 2, 173-176, 1929.  
 W. J. H. Mich. Farm. 78, 284, 1929.  
 Waid, Market Gr. J. 42, 162, 1928.  
 Wallace, The Canner, 65; 9, 18, 1927.  
 Wallace, Ind. Ent. R. f. 1927, 49.  
 Wallace, Farmer, 47, 1250, 1929.  
 Wallace, Ind. Dept. Conserv. R. 10, 39,  
 45, 1929.  
 Walton, Science Suppl. 63: 1621, xiv,  
 1926.  
 Warner, Amer. Fert. 66; 8, 62, 1927.  
 Washburn, Me. St. Bd. Agr. R. 22, 18-  
 19, 1926.  
 Watkins, Mich. St. Dept. Agr. Bien. R.  
 1, 148, 1924.  
 iWatson, Fla. Dept. Agr. Quar. B. 39;  
 3, 183-184, 1929.  
 Willard, Breeder's Gaz. 89, 501, 1926.  
 Williams, Ohio B. 382, 35-36, 1924.  
 iWilliams, Ohio B. 402, 49-60, 1927.  
 Williams, Ohio B. 417, 42-44, 1928.  
 iWilson, LaHacienda 22; 102-103, Ap.  
 1927.  
 Woodbury, Canning Trade, 49; 27, 81-  
 84, 1926.  
 Woodbury, The Canner, 64; 10, 145,  
 1927.  
 Woods, Amer. Fert. 67; 8, 57, 1927.  
 Woods, Canning Trade 50; 7, 20, 22,  
 1927.  
 iWorthley, J. Ec. Ent. 19, 400-407, 1926.  
 Worthley, Canning Age 8, 221-223, 1927.  
 Worthley, Canning Trade, 49; 26, 87-  
 89, 1927.

- Worthley, Hoard's Dairym. 72,372,1927.  
 Worthley, J. Econ. Ent. 20,471-476, '27.  
 iWorthley, Pa. B. 230, 42-43, 1928.  
 Worthley, Penn. St. Farm. 21, 9, 1928.  
 Worthley, Pa. St. Col. B. 243, 30, 1929.  
 Worthley & Caffrey, U.S.D.A. Misc.  
     C. 104, 1927, 11 p.  
 Worthley, et al, Agr. Eng. 8,77-78,1927.  
 iZappe, Collier & Arnold, USFB 1562,  
     1928, 21 p.  
 Zappe, Conn. B. 275, 303-308, 1926.  
 Zappe, Conn. B. 305, 734-737, 1929.  
 Zwolfer, Internat. Corn Borer Invest.  
     Sci. R. 1, 135-148, 1928.  
 b——U.S.D.A. Misc. C. 46, 1925, 20 p.  
     ——U.S.D.A. Misc. C. 102, 1927.  
 i——U. S. Dept. Agr. Bur. Ent. Com-  
     plete Res. Prog. Eur. Corn Borer,  
     1928, 71 p.  
     ——U.S.D.A. Bur. Ent. Conf. Eur.  
     Corn Borer R. 3, 1929, 23 p.  
 i——U.S.D.A. Bur. Ent. Complete  
     Res. Prog. Eur. Corn Borer '29,51 p.  
     ——U.S.D.A., Official Record 5; 40,  
     1, 1926.  
     ——U.S.D.A. Bur. Ent.Mim.1929,5 p.  
     ——U. S. House Com. on Agr., Eur.  
     Corn Borer Hearings Jan. 24-26,  
     Mar. 27-29, 1928, sec. G. 250 p. (U.  
     S. Cong. 70, Sess. I).
- Pyrausta nubilalis—Appropriations**  
 Caffrey, J. Ec. Ent. 21, 89-93, 1928.  
 iCall, Farm & Fireside 52; 2, 15, 1928.  
 Walton, U.S.D.A. YB, 1927,202-207,'28.  
 Worthley, J. Ec. Ent. 21, 230-234, 1928.
- Pyrausta nubilalis—Bacterial diseases**  
 bChorine, Internat. Corn Borer Invest.  
     Sci. R. 2, 39-53, 1929.  
 Ellinger, New Breeder's Gaz. 93; 6, 22,  
     1928.  
 Ellinger, New Breeder's Gaz. 93; 7, 31,  
     1928.  
 Hasz, Internat. Corn Borer Invest.  
     Sci. R. 1, 191-193, 1928.  
 iHasz, Internat. Corn Borer Invest.  
     Sci. R. 2, 99-105, 1929.  
 biMetalnikov & Chorine, Internat. Corn  
     Borer Invest. Sci. R. 1, 41-69, 1928.
- Metalnikov, et al, Internat. Corn Borer  
     Invest. Sci. R. 1, 70-71, 1928.  
 Metalnikov & Toumanoff,Internat.Corn  
     Borer Invest Sci. R. 1, 72-73, 1928.  
 Roubaud, Internat. Corn Borer Invest.  
     Sci. R. 1, 35-36, 1928.  
 iToumanoff, Internat. Corn Borer In-  
     vest. Sci. R. 1, 74-76, 1928.  
 iWallengren & Johnson, Internat. Corn  
     Borer Invest. Sci. R. 2, 131-145,1929.
- Pyrausta nubilalis—Bibliography**  
 Wade, U.S.D.A. Misc. C. 46, rev. 1928,  
     34 p.
- Pyrausta nubilalis—Canada**  
 Crawford, Internat. Cong. Ent. 4, Tr.  
     2, 138-144, 1929.
- Pyrausta nubilalis—Conferences**  
 Detwiler, Farm. Advoc. 62, 1637-1638,  
     1927.  
 Gray, Agr. Eng. 9, 274, 1928.  
 Irons, Canning Trade 50; 13, 18, 20,'27.  
 Woods, J. Ec. Ent. 22, 437, 1929.  
     ——J. Ec. Ent. 18, 767, 1925.
- Pyrausta nubilalis—Effect on Poultry-**  
     **men**  
 Cooley, Amer. Poultry J. 58,153,224,'27.
- Pyrausta nubilalis—History**  
 Caffrey, Internat. Cong. Ent. 4, Tr. 2,  
     294-302, 1929.
- Pyrausta nubilalis—Host plants**  
 Babcock & Vance, U.S.D.A. Tech. B.  
     135, 14-15, 1929.  
 iCaffrey & Worthley, U.S.D.A.B. 1476,  
     17-24, 1927.  
 bHodgson, U.S.D.A. Tech B. 77, 1928,  
     63 p.  
 Marshall, Ont. Ent. Soc. R. 57, 28-32,  
     1927.  
 iMarston & Dibble, Mich. Quar. B. 11,  
     69-72, 1928.  
 Roubaud, Internat. Corn Borer Invest.  
     Sci. R. 1, 3-14, 1928.
- Pyrausta nubilalis—Insects mistaken for**  
 iDrake & Decker, Iowa C. 103, 2-7,1927.  
 biEllis, J. Agr. Res. 30, 777-792, 1925.  
 iOsborn, Ohio Ext. Serv. European  
     Corn Borer 9, 1926, 4 p.  
 Caesar, Ont. Ent. Soc. R. 55,50-52,1925.  
 Caesar, Ont. Ent. Soc. R. 56,72-75,1926.



- Pyrausta nubilalis**—Larval mortality *Cont'd*  
 Marshall, Ont. Ent. Soc. R. 57, 33-34, 1927.
- Pyrausta nubilalis**—Japan  
 bKuwayama, Internat. Cong. Ent. 4, Tr. 2, 100-109, 1929.
- Pyrausta nubilalis**—Larval mortality  
 Caesar, Ont. Ent. Soc. R. 55, 50-52, 1925.  
 Caesar, Ont. Ent. Soc. R. 56, 72-75, 1926.  
 Marshall, Ont. Ent. Soc. R. 57, 33-34, 1927.
- Pyrausta nubilalis**—Losses from  
 Hough, Sci. Amer. 141, 126, 1929.
- Pyrausta nubilalis**—Number of generations  
 iBarber, J. Ec. Ent. 18, 496-509, 1925.
- Pyrausta nubilalis**—Response to light  
 Barber, Ann. Ent. Soc. Amer. 18, 419-431, 1925.
- Pyrausta nubilalis**—Parasites  
 Babcock & Vance, U.S.D.A. Tech. B. 135, 32-35, 1929.  
 Baird, Ont. Ent. Soc. R. 55, 54-56, 1925.  
 Baird, Ont. Ent. Soc. R. 56, 78, 1926.  
 Baird, Ont. Ent. Soc. R. 59, 38-40, 1929.  
 iChristie, Ind. R. 38, 23, 1926.  
 Culliford, Farm. Advoc. 62, 648, 1927.
- ibDudich, Internat. Corn Borer Invest. Sci. R. 1, 184-190, 1928.
- ibEllinger & Sachtleben, Internat. Corn Borer Invest. Sci. R. 1, 109-134, 1928.  
 Ellinger & Sachtleben, Internat. Corn Borer Invest. Sci. R. 2, 62-76, 1929.  
 Flint et al, Canner, 64; 8, 22-23, 1927.  
 Flint, et al, Ill. C. 321, 15, 1928.
- iFox, Canada Hon. Advis. Council for Sci. & Indust. Research R. 21, 1927, 58 p.
- Hergula, Internat. Corn Borer Invest. Sci. R. 2, 111-127, 1929.
- Huber & Neiswander, Ohio Ext. Eur. Corn Borer 12, 1926, 4 p.
- iHuber & Neiswander, Ohio Ext. Leaf. 12, 1926, 4 p.
- Jones, Ont. Ent. Soc. R. 58, 55-56, 1928.
- iJones, U.S.D.A. Tech. B. 98, 1929, 27 p.
- Jones & Caffrey, U.S.D.A.C. 14, 2-6, 1927.
- iKotlan, Internat. Corn Borer Invest. Sci. R. 1, 174-178, 1928.
- iLarrimer, Sci. Mo. 27, 424-443, 1928.  
 Larrimer, Canning Trade 51; 32, 24, 1929.
- Motherwell, Can. Min. Agr. R. f. 1929, 123-128.  
 ———J. Ec. Ent. 20, 761, 1927.
- Pyrausta nubilalis**—Plowing  
 iBacon, Power F. 37, 8, 1928.  
 Caesar, Farm. Advoc. 62, 548, 1927.  
 Dibble, Mich. Quar. B. 10, 58-59, 1927.  
 Dickerson, Ohio Farm. 161, 203-209, 1928.  
 iMussleman, Mich. Ext. B. 55, 1927, 4 p.  
 Nissley, N. J. Agr. 11, 10, 3, 1929.  
 Parks, Silver & Park, Ohio Ext. Serv. European Corn Borer 5, 1926, 4 p.
- Pyrausta nubilalis**—Plows  
 Mumford, Ill. R. 42, 197-199, 1929.  
 iReed & Silver, Ohio Ext. B. 80, 1928, 61 p.
- Van Blaricom, Farm & Dairy, 14, 30, 1, 5, 1928.
- Pyrausta nubilalis**—Quarantine  
 iAkers, Farm. 44, 1517, 1524, 1926.  
 Bartlett, U.S.D.A., F.H.B., S.R.A., 82, 2, 1925.  
 Bentley, Tenn. Plant Dis. Control B. 47, 11, 1926.  
 C.L.L., Flor. Exch. 70; 9, 54, 1929.  
 C.L.L., Florists Exchange 63, 1110, 1926.  
 Caffrey & Worthley, U.S.D.A.B. 1476, 141-143, 1927.  
 Dunlap, U.S.D.A., F.H.B., S.R.A., 89, 112-113, 1926.  
 Dunlap, Fla. Dept. Agr. Quar. B. 37; 3, 35-38, 1927.  
 Dunlap, U.S.D.A., F.H.B., S.R.A., 90, 23-24, 1927.  
 Gore, U.S.F.H.B., S.R.A., 82, 1-2, 1925.  
 Green, Farm & Dairy, 15; 23, 1, 1929.  
 Hardison, Cal. Dept. Agr. Mo. B. 17, 70-71, 1928.  
 Jardine, U.S.D.A., F.H.B., S.R.A., 86, 12-13, 1926; 87, 41-43, 44-48, 1926; 89, 106, 113-116, 1926; 90, 19-22, 24, 26-30, 1927; 93, 133-135, 135-141, 1927.  
 Jones, Wis. Dept. Agr. B. 69, 88, 1924.

- Marlatt, U.S.D.A., F.H.B., S.R.A., 89, 107, 1926; 90, 18-19, 1927.
- Marvin, U.S.D.A., F.H.B., S.R.A., 87, 43-44, 68-70, 1926; 89, 107-111, 1926.
- Marvin, U.S.D.A., P.Q.C.A., S.R.A., 96, 69-73, 1928.
- Mayer, Ohio Ext. Serv. News 11; 11, 3, 1926.
- Regar, U.S.D.A., F.H.B., S.R.A., 86, 14, 1926; 90, 22-23, 31, 1927.
- Regar, U.S.D.A., P.Q.C.A., S.R.A., 96, 73-76, 1928.
- Sasscer, U.S.D.A., F.H.B., S.R.A., 91, 58, 1927.
- Slate, Conn. B. 255, 282, 1925.
- Strong, Cal. Dept. Agr. Mo. B. 17, 67-68, 1928.
- Thornburg, Drake & Hammill, Iowa Yrbk. of Agr. 26, 40-42, 1926.
- Worthley, J. Ec. Ent. 22, 470-474, 1929.
- Amer. Florist, 67, 1993, 4, 1926.
- Amer. Flor. 70; 2066, 34, 1928.
- Cal. Cult. 66, 145, 1926.
- Canning Trade, 51; 31, 26-27, '29.
- Co-operative Manager & Farm. 16; 1, 43, 1926.
- Farm & Dairy, 14, 46, 19, 1928.
- Hort. new ser. 4, 467, 1926.
- J. Agr. & Hort. Quebec, 33; 1, 8, '29.
- Kans. Ent. Com. Quarantines 1927, 6-8.
- Kans. Ent. Com. Quarantine, Notice 4, 1926.
- Nat. Nurserym. 34, 50, 1926.
- N. J. St. Hort. Soc. Proc. f. 1928, 212-217, 1929.
- O. Ext. Serv. News, 13, 1-2, 1927.
- Ohio Farm. 164, 97, 1929.
- Pa. Dept. Agr. Gen. B. 414, '25, 8 p.
- U.S.D.A., F.H.B., S.R.A., 86, 11-12, 1926.
- U.S.D.A., F.H.B., S.R.A., 89, 106, 1926; 89, 111-112, 116, 1926; 90, 25, 1927; 97-99, 1928; 98, 1-2, 1929; 99, 54-55, 1929.
- U.S.D.A., P.Q.C.A., S.R.A., 97, 97-99, 1928.
- Wis. Hort. 17; 6, 87, 1927.
- Pyrausta nubilalis**—Research  
iVouk & Hergula, Internat. Corn Borer Invest. R. 2, 106-110, 1929.
- Pyrausta nubilalis**—Resistant Corn  
Meyers, Ohio B. 431, 33-34, 1929.  
bNeiswander & Huber, Ann. Ent. Soc. Amer. 22, 527-542, 1929.  
Roubaud, Internat. Corn Borer Invest. Sci. R. 2, 10, 1929.  
Roubaud, Iowa Homestead, 74, 44, 1929.  
Williams, Ohio B. 417, 22, 1928.
- Pyrausta penitalis**  
Curtis, Iowa R. f. 1927, 34.  
iDrake & Decker, Iowa C. 103, 5-6, 1927.  
iEllis, J. Agr. Res. 30, 783-785, 1925.  
biPoos, O. J. Sci. 27, 47-94, 1927.
- Pyrausta phoenicealis**  
Bottimer, J. Agr. Res. 33, 801, 1926.
- Pyrella serena**—Biology  
bHolmquist, Ann. Ent. Soc. Amer. 21, 660-667, 1928.
- Pyrethrum**, *see* Insecticides—Pyrethrum
- Pyretophorus fajardi**, *see* Chagasias fajardoi
- Pyrgota undata**  
Petch & Hammond, Ont. Ent. Soc. R. 56, 86, 1926.
- Pyrgus centaureae, freija**  
Lindsey, Ent. News 39, 239-241, 1928.
- Pyrgus syrichtus**  
Bottimer, J. Agr. Res. 33, 797-798, '26.
- \*Pyriform scale**, *see* Pulvinaria pyriformis
- Pyrinia sabasia**  
nSchaus, Proc. Ent. Soc. Wash. 29, 78, '27.
- Pyrochlora majorcula**  
nDyar, Ins. Insc. Mens. 13, 7, 1925.
- Pyroderces rileyi**  
iBack & Cotton, USFB, 1260, rev. Dec. 1925, 16-17.  
iIllingworth, Pineapple News 1, 69-71, 1927.
- Pyrophaena granditarsis**  
Curran, Kans. Univ. Sci. B. 15, 115, '25.
- Pyrophorus spp.**  
iHarvey & Stevens, J. Gen. Physiol. 12, 269-272, 1928.

**Pyrophorus spp. Cont'd**

- bPlank, Ann. Ent. Soc. Amer. 22, 639, '29.  
 Stahl & Scaramuzza, Trop. Plant Res.  
 Found. B. 10, 15, 1929.

**Pyrrhia immixta**

- nDyar, Ins. Insc. Mens. 13, 5, 1925.

**Pyrrhocoridae**

- bMyers, Ann. Ent. Soc. Amer. 20, 279-300, 1927.

**Pyrrsonympha**

- iPowell, Cal. Univ. Pubs. Zool. 31, 179-200, 1928.

**Pyticeroides manni**

- nChapin, P.U.S.N.M. 71, Art. 2, 8-9, 1928.

**Quarantine**

- Burdett, Am. Florist 64, 637, 1925.  
 Chambers, Wis. Hort. 18: 6, 146-147, '28.  
 Hardison, Cal. Dept. Agr. Mo. B. 17, 69-72, 1928.  
 Hecke, Cal. Cult. 65, 427, 1925.  
 Hyde, Fla. St. Pl. Bd. Mo. B. 14, 139-141, 1929.  
 Hyde, Fla. St. Pl. Bd. Mo. B. 14, 141-160, 1929.  
 Jacobsen, J. Ec. Ent. 20, 674-678, 1927.  
 Linz, Flor. Exch. 72; 10, 11, 29, 1929.  
 McDaniel, Citrus Leaves 6: 5, 18, 1926.  
 Marlatt, U.S.D.A., F.H.B., R. f. '25, 9-10.  
 Marlatt, U.S.D.A., F.H.B., R. f. 1927, 24-25, 34-35.  
 Newell, La. St. Pl. Bd. Quar. B. 10: 3, 13-17, 1926.  
 Park, Oreg. St. Hort. Soc. Bien. R. 19, 50-52, 1927.  
 iStoutamire, Fla. Grower 32: 13, 7, '25.  
 —Amer. Assoc. Nurserymen R. 46, 69, 1924.  
 —Amer. Fruit Grower Mag. 45; 5, 6, 1925.  
 —Amer. Nurserym. 45, 232, 1927.  
 —Cal. Agr. Mo. B. 16, 89, 1927.  
 —Citrus Indust. 10: 11, 4, 1929.  
 —Flor. Exch. 63, 572, 1926.  
 —Flor. Exch. 71: 13, 37, 1929.  
 —Gard. Chron. Amer. 29, 192, 1925.

**Quarantine—Alien insects**

- iRichardson, Farm Journal 50; 3, 40, '26.

**Quarantine—Arizona**

- Bartlett, Cal. Dept. Agr. Sp. Pub. 54, 14-16, 1925.

**Quarantine—Arkansas**

- Ark. St. Pl. Bd. C. 13, 1925.

**Quarantine—Brazil**

- Fruit Belt 21: 10, 14, 1923.

**Quarantine—B. C.**

- Lyne, Cal. Dept. Agr. Sp. Pub. 54, 39-42, 1925; 85, 32-37, 1928.

**Quarantine—Bulbs**

- Burley, Clemson Col. S. C. Wkly. News Notes 15: 8, 1926.

Jardine, Amer. For. 32, 114-115, 1926.

Jardine, Quar. B. St. Pl. Bd. Fla. 10, 73-77, 1926.

L.C.L., Flor. Exch. 62, 313, 1926.

Marlatt, Amer. Flor. 64, 725, 1925.

Marlatt, U.S.D.A., F.H.B., R. f. 1925, 8.

Marlatt, U.S.D.A., F.H.B., R. f. '27, 31-32.

iMarlatt, Amer. Flor. 70; 2081, 7 & 21, 1928.

Marlatt, U.S.D.A., F.H.B., R. f. 1928, 37-38.

Van Aken, Nation, 121: 701-702, D. 16, 1925.

—Flor. Exch. 59, 1559, 1925.

—Flor. Exch. 62, 485, 1926.

—Flor. Exch. 62, 545, 1926.

—Flor. Exch. 62, 572, 1926.

—Flor. Exch. 62, 748, 1926.

—Fla. Grower 33: 22, 34, 1926.

**Quarantine—California**

Cotton, Cal. Cult. 70, 429, 1928.

Fleury, Calif. Grape Grow. 7; 8, 14, '26.

Hecke, Calif. Cult. 65, 427, 1925.

Jacobsen, Cal. Dept. Agr. Sp. Pub. 54, 33-38, 1925.

Jacobsen, Cal. Dept. Agr. Sp. Pub. 85, 58-61, 1928.

Jacobsen, Cal. Agr. B. 14, 152-155, '26.

iMaskew, Sketch ..... origin ..... quarantine regulations, 1925, 65 p.

O'Kane, Cal. Dept. Agr. Mo. B. 18, 436-441, 1929.

—Calif. Fruit News 73; 1957, 13, '26.

—Calif. Fruit News 73; 1966, 3, 1926.

—Cal. Agr. Mo. B. 16, 499, 1927.

- Quarantine—Central Plant Bd. Kans.**  
 Dean, Kans. Ent. Comm. Bien. R. 11, 23-27, 1927-28.  
 Dean, Kans. Ent. Comm. Bien. R. 11, 22-23, 1927-28.
- Quarantine and patrols—*Ceratitis capitata***  
 Coy, Calif. Dept. Agr. Mo. B. 18: 7; 393-396, 1929.
- Quarantine No. 68—Revised—*Ceratitis capitata***  
 ————Fla. St. Pt. Bd. Mo.B.14,64-66,'29.
- Quarantine—Certificate tags, printed**  
 Fracker, J. Ec. Ent. 20, 458-464, 1927.
- Quarantine—Cherry trees**  
 ————Flor. Exch. 62, 570, 1926.
- Quarantine—Christmas trees**  
 Watkins, Mich. St. Dept. Agr. Bien. R. 1, 147, 1924.
- Quarantine—Citrus—Calif. & Nat'l Plant Bd.**  
 Strong, Cal. Agr. Mo. B. 18,135-138,'29.
- Quarantine—Coconut insects**  
 ————J. Jamaica Agr. Soc. 29, 404, '25.
- Quarantine—Colorado**  
 List, Cal. Dept. Agr. Sp. Pub. 54, 38-39, 1925; 85, 37-39, 1928.
- Quarantine—Conference—Denver, Colo.**  
 ————Calif. Dept. Agr. Sp. Pub. 54, 1925, 100 p.
- Quarantine—Conference—Washington**  
 Marlatt, Cal. Dept. Agr. Sp. Pub. 54, 50-55, 1925.
- Quarantines—Conn. Cost.**  
 ————Nat. Nurserym. 36; 19, 10, 1929.
- Quarantine—Cooperation—Postmaster Gen.**  
 ————Cal. Dept. Agr. Mo. B. 18,349,'29.
- Quarantine—Cotton seed**  
 Bentley, Tenn. Dept. Agr. Bien. R. 1923-1924, 76.
- Quarantine—Effect on Nursery Industry**  
 ————Flor. Exch. 71; 1, 35, 1929.
- Quarantine—Florida**  
 Bill, Jr., Citrus Industry 9: 6,22-23,'28.  
 Linz, Flor. Exch. 70; 17, 45, 1929.  
 Marlatt, Farm & Live Stock Rec. 35; 9, 13, 1929.
- Newell, Fla. St. Plant Bd. Quar. B. 11, 22-35, 1927.
- Newell, Fla. St. Hort. Soc. Proc. 41, 109-113, 1928.
- iNewell, Fla. St. Plt. Bd. Mo. B. 12, 189-195, 1928.
- Yonge, Fla. St. Pl. Bd. Quar. B. 11, 62-110, 1927.
- Yonge, Fla. St. Pl. Bd. Mo. B. 13, 102-108, 1929.
- Cal. Dept. Agr. Mo. B.18,337,'29.
- Cal. Fruit News 79; 2130, 3, 1929.
- Fla. Farm. 32; 1, 3, 1929.
- Fla. St. Pt. Bd. Mo.B.14,47-61,'29.
- Fla. St. Plant Bd. Mo. B. 14: 4-5-6, 86-139, 1929.
- Quarantine—French nursery stock**  
 ————Flor. Exch. 59, 2071, 1925.  
 Barbier, Amer. Flor. 64, 1105, 1925.
- Quarantine—Hawaii**  
 Zschokke, Cal. Dept. Agr. Sp. Pub. 85, 39-44, 1928.
- Quarantine—Idaho**  
 Dean, Cal. Dept. Agr. Sp. Pub. 55, 42-44, 1925.
- Quarantine—Imported fruit**  
 Robertson, B. C. Dept. Agr. R. 20, P. 27, 1926.
- Quarantine—Ind.**  
 Stearns, Tr. Ind. Hort. Soc.67,109,1927.
- Quarantine—Kansas**  
 Hungerford, Kans. St. Hort. Soc. Bien. R. 39, 21-25, 1928.
- Swenk, Cal. Dept. Agr. Sp. Pub. 54, 44-45, 1925.
- Kansas Ent. Com. Quarantines, 1926, 4 p.
- Quarantine—Lower California**  
 Pratt, Cal. Dept. Agr. Sp. Pub. 54, 28-31, 1925.
- Quarantine—Manetti rose stocks**  
 Linz, Am. Florist 64, 1112, 1925.  
 Totty, Am. Florist 65, 9, 1925.
- Quarantine—Mexico**  
 Alcazar, Cal. Dept. Agr. Sp. Pub. 73, 82, 1927.  
 Rivas, Cal. Dept. Agr. Sp. Pub. 85, 68-76, 1928.

**Quarantine—Mississippi**

Harned, Cal. Dept. Agr. Sp. Pub. 85,  
56-58, 1928.

**Quarantine—Misunderstandings**

Marlatt, Amer. Nurserym. 42, 85, 1925.  
Marlatt, Citrus Industry, 6; 10, 17, '25.

**Quarantine—Montana**

Shovell, Cal. Dept. Agr. Sp. Pub. 54,  
31-32, 1925.

**Quarantine—National**

Strong, Calif. Dept. Agr. Sp. Pub. 54,  
56-58, 1925.  
Strong, Calif. Dept. Agr. Mo. B. 17, 64-  
69, 1928.

**Quarantine—Nat. Board of review**

—Calif. Fruit News 73; 1961, 3, '26.

**Quarantine—Nebraska**

Swenk, Cal. Dept. Agr. Sp. Pub. 54, 44,  
1925.

**Quarantine—Nevada**

Doten, Calif. Dept. Agr. Sp. Pub. 54,  
32-33, 1925.

**Quarantine—N. C.**

Leiby, N. C. Dept. Agr. Bien. R. 1926-  
28, 41-42, 1929.

**Quarantine—Nursery stock**

Dunlap, Amer. Florist, 71; 47, 6, 1929.  
Hecke, West. Flor. 12; 34, 3-4, 1929.  
Jacobs, Flor. Rev. 65; 1669, 124, 126,  
1929.  
Marlatt, U. S. Fed. Hort. Bd. S.R.A.  
82, 15-16, 1925.  
Marlatt, U.S.D.A., P.Q.C.A., S.R.A. 95,  
81-85, 1928.  
Reber, Flor. Exch. 72; 2, 32, 1929.  
—Oreg. St. Hort. Soc. Bien. R. 19,  
70-71, 1927.  
—U.S.D.A., F.H.B., S.R.A. 86, 28-  
30, 1926.  
—U.S.D.A., F.H.B. 90, 2-16, 1927.

**Quarantine—Oregon**

—Oreg. St. Hort. Soc. Bien. R. 19,  
13, 1927.  
Park, Calif. Dept. Agr. Sp. Pub. 54, 21-  
22, 1925.  
Park, Oreg. St. Hort. Soc. Bien. R. 19,  
61, 1927.

**Quarantine—Plant**

Chenoweth, Cal. Assoc. Nurserym. R.  
18, 18-20, 1928.

Brittain, J. Agr. Quebec 31, 178, 1928.

Ferris, Flor. Exch. 72: 17, 32-33, 1929.

Fleury, Cal. Agr. B. 14, 149-178, 1926.

Fleury, Cal. Cult. 67: 179, Ag. 21, 1926.

Fleury, Cal. Agr. Mo. B. 17, 493-495, '28.

Fracker, Wash. St. Hort. Soc. Proc.  
24, 63-66, 1928.

Hamblin, Atlantic Mo. 135: 353-362;  
Mr. 1925.

Hardison, Cal. Dept. Agr. Mo. B. 15;  
1-6, 32-36, 1926.

Hecke, Cal. Cult. 65: 427, O. 31, 1925.

Hecke, Cal. Cult. 66, 3 & 10, 1926.

Hecke, Blue Anchor 1; 10, 20 & 45-  
48, 1929.

Jacobssen, Cal. Agr. B. 14, 146-149, '26.

Jardine, Flor. Exch. 63, 1278A, 1926.

Jardine, Nation, 122: 33-34, Ja. 13, '26.

Jardine, Flor. Exch. 65; 1205, 1927.

Linz, Am. Flor. 64, 1112, Jl. 1, 1925.

Linz, Am. Flor. 65: 8, Jl. 8, 1925.

Linz, Flor. Exch. 63, 838-839, 1926.

Marlatt, U.S.D.A., F.H.B., R. f. '26, 10.

Marlatt, U.S.D.A., F.H.B. R. f. '28, 3-4.

Newell, Fla. St. Pl. Bd. C. 56, 1926, 4 p.

Newell & Montgomery, Fla. St. Hort.  
Soc. Proc. f. 1929, 145-150.

Park, Oreg. Bd. Hort. R. f. '23; 113-116.

Roeding, Cal. Ag. Dept. B. 16: 113-  
122, Mar. 1927.

Ryan, Los Angeles Co. Hort. R. 1924-  
25, 2-5, 1925.

Ryan, Los Angeles Co. Hort. R. 1924-  
25, 6-13, 1925.

Sasscer, J. Ec. Ent. 18, 468-472, 1925.

Stirling, Fla. St. Hort. Soc. Proc. f.  
1929, 152-155.

—Cal. Dept. Agr. Sp. Pub. 54, 1925,  
100 p.

—Citrus Ind. 9, 12, 7 & 27, 1928.

—Cal. Agr. Mo. B. 17, 516-517, '28.

—Flor. Exch. 61; 1243, 1260, 1926.

—Los Angeles Co. Hort. Com. R.  
f. 1929, 4-9.

—Mo. St. Pl. Bd. B. 1, 1925, 13 p.

- Quarantine—Plant—Act**  
 Linz, Flor. Exch. 72; 3, 11, 43, 1929.  
 ———Amer. Fr. Gr. Mag. 46; 3, 36, '26.  
 ———J. Ec. Ent. 22, 1010, 1929.
- Quarantine—Plant and air routes**  
 Kisliuk, Ent. News 61, 196-197, 1929.  
 Kisliuk, J. Ec. Ent. 22, 594-595, 1929.
- Quarantine—Plant and citrus grower**  
 Chandler, Citrus leaves 6: 6, 26, 27, '26.
- Quarantine—Plant and Control Administration**  
 Chambers, Wis. Hort. 19, 186-187, 1929.
- Quarantine—Plant and the state**  
 McCubbin, Phytopathology 19, 487-492, 1929.
- Quarantine—Plant—Arkansas**  
 ———Ark. St. Pl. Bd. C. 13, 1925, 20 p.
- Quarantine—Plant as trade barriers**  
 Campbell, Ann. Am. Acad. 141, 30-35, Ja. 1929.
- Quarantine—Plant boards**  
 Dean, Kans. Ent. Com. Bien. R. 11, 22-31, 1929.
- Quarantine—Plant—B. C.**  
 Lyne, Cal. Dept. Agr. Sp. Pub. 72, 21, '27.
- Quarantine—Plant—Calif.**  
 Newman, Calif. Cult. 68, 721, 1927.
- Quarantine—Plant—Changing conditions**  
 Montgomery, Fla. St. Pl. Bd. Mo. B. 12: 7, 135-140, 1928.
- Quarantine—Plants, Fla.**  
 Montgomery, Fla. Month. B. 12, 196-204, 1928.  
 Montgomery, Fla. St. Hort. Soc. Proc. 41, 114-119, 1928.  
 iWarner, Fla. St. Hort. Soc. Proc. 41, 120-128, 1928.
- Quarantine—Plant—Ga.**  
 ———Ga. Ent. B. 65, 3-11, 1924.
- Quarantine—Plant—Legal aspect**  
 Strong, J. Ec. Ent. 19, 326-334, 1926.
- Quarantine—Plant—Lists of**  
 ———U.S.D.A. Pl. Quar. & Cont. Adm. List of current quar. Je. 1929, 7 p.
- Quarantine—Plant—Lower California**  
 Howard, Cal. Dept. Agr. Mo. B. 18, 615-621, 1929.
- Quarantine—Plant—Mexico City**  
 ———Calif. Cult. 67, 554, 1926.  
 ———J. Ec. Ent. 19, 886-887, 1926.
- Quarantine—Plant—Mississippi**  
 ———Miss. St. Plant Bd. Quar. B. 5, 1, 1925; B. 9: 3, 46-56, 1929.
- Quarantine—Plant—National Board**  
 Strong, Cal. Dept. Agr. Sp. Pub. 85, 62-64, 1928.
- Quarantine—Plant—Enforcement on naval vessels**  
 ———Cal. Dept. Agr. Mo. B. 17, 358, '28.
- Quarantine—Popillia japonica**  
 Handle, N. J. Dept. Agr. R. 13, 124, '29.
- Quarantine—Plant 37**  
 Lemon, House Beautiful 59, 186, F. '26.  
 iMcFarland, C. Gentl. 90; 36, 27, 1925.  
 McFarland, Amer. Flor. 64, 869, 1925.  
 iRockwell, Farm & Fireside 50; 3, 13 57, 1926.  
 ———Amer. Flor. 64, 192, 1925.  
 ———Amer. Flor. 65; 1956, 9, 1925.  
 ———Amer. Flor. 71; 2096, 23, 1928.  
 ———Amer. Nurseryman 37, 92, 1923.  
 ———Flor. Exch. 66: 8, 621, 1927.  
 ———Flor. Exch. 67, 1585, 1928.  
 ———Gard. Chron. Amer. 29, 123, 1925.  
 ———Ohio Farm. 164, 254, 1929.
- Quarantine—Plant—Recent developments**  
 Marlatt, J. Ec. Ent. 22, 461-468, 1929.
- Quarantine—Plant—U. S.**  
 Ball, Am. Flor. 65: 104, N. 1925.  
 Barbier, Am. Flor. 64: 1105, J1. 1, 1925.  
 Burdett, Am. Flor. 64: 637-638, Ap. 25, 1925.  
 Lemon, House Beautiful, 59: 186, F. '26.  
 McFarland, Atlantic Mo. 136: 241-245, Ag. 1925.  
 McFarland, Outlook 141: 80-81, S. 16, 1925.  
 Marlatt, Atlantic Mo. 135: 775-785, Je. 1925.  
 Marlatt, Lit. Dig. 86: 59-60, Ag. 1, '25.  
 Marlatt, U.S.D.A., F.H.B., R. f. '25, 1-23.  
 Marlatt, U.S.D.A., F.H.B. R. f. '26, 1-27.  
 Marlatt, U.S.D.A., F.H.B. R. f. '28, 29-30.  
 Pickett, Pac. Rur. Press, 110: 520, N. 14, 1925.

**Quarantine—Plant—U. S. Cont'd**

- Purdy, Gard. M. 41: 316-317, Je. 1925.  
 Taylor, Cal. Cult. 65: 3, Jl. 4, 1925.  
 Totty, Am. Flor. 65: 9, Jl. 8, 1925.  
 —Am. Farm. Bur. N L 6: 1, Ja. 5, 1926.  
 —Am. Flor. 64: 725-726, My. 9, '25.  
 —Am. Flor. 64: 819-822, My. 23, '25.  
 —Am. Flor. 65: 14, O. 21, 1925.  
 —Am. Flor. 65: 9, N. 25, 1925.  
 —Am. Flor. 65: 10, D. 16, 1925.  
 —Am. Flor. 65: 10, Ja. 6, 1926.  
 —Cal. Cit. 11: 267, My. 1926.  
 —Cal. Cult. 65: 552, N. 28, 1925.  
 —Cal. Cult. 66: 3, Ja. 2, 1926.  
 —Cal. Ag. Dept. Spec. Pub. 54: 1-100, 1925.  
 —Gard. & Home Builder, 42: 421, F. 1926.  
 —Gard. & Home Builder, 44: 445, F. 1927.  
 —Gard. Chron. Am. 29: 192, Jl. '25.  
 —Gard. Chron. Am. 29: 320-322, D. 1925.  
 —Lit. Dig. 88, 10, Ja. 23, 1926.  
 il—Ore. Bd. Hort. R. f. 1923: 71-75.  
 —Outlook, 142: 44, Ja. 13, 1926.  
 —Outlook, 142: 170-172, F. 3, 1926.  
 —Sat. Eve. Post 198: 22, Ja. 2, '26.  
 —Science, 70: 1087, Supp. xii, 1929.

**Quarantine—Plant—Western**

- Dean, J. Ec. Ent. 19, 388-394, 1926.  
 Dean, Cal. Dept. Agr. Mo. B. 18, 605-608, 1929.  
 Jacobsen, Cal. Dept. Agr. Mo. B. 18, 612-614, 1929.  
 —Cal. Dept. Agr. Sp. Pub. 72, 1927, 69 p.

**Quarantine—Plant—Western board**

- Cal. Dept. Agr. Sp. Pub. 73, 94, '27.  
 —Cal. Agr. Mo. B. 17, 462-465, '28.  
 —Cal. Dept. Agr. Sp. Pub. 85, 98-103, 1928.

**Quarantine—Porto Rico**

- Cal. Fruit News 72; 1930, 13, '25.

**Quarantine—Postal laws**

- Wood, Cal. Dept. Agr. Sp. Pub. 54, 60-65, 1925.

**Quarantine—Spanish grapes**

- Linz, Calif. Grape Grow. 8; 10, 14, '27.  
 —Calif. Grape Grow. 8; 7, 11, 1927.

**Quarantine—Standardization**

- Griner, Wash. St. Hort. Assoc. Proc. 21, 31-36, 1925.

**Quarantine—Sugar cane**

- Brandes, Sugar 31, 343-344, 354, 1929.

**Quarantine—Tennessee**

- Bentley, Penn. Plant. Dis. Control B. 44, 81-84, 1924.

**Quarantine—Tex.**

- Del Curto, Valley Farm. 3; 4, 9, 1929.

**Quarantine—Pacific Coast & Mex.**

- Ryan, Cal. Dept. Agr. Sp. Pub. 73, 86, '27.

**Quarantine—Utah**

- Webb, Cal. Dept. Agr. Sp. Pub. 54, 22-25, 1925.

**Quarantine—Value**

- McLaine, Cal. Dept. Agr. Mo. B. 18, 609-611, 1929.

**Quarantine—Washington—Report**

- Griner, Cal. Dept. Agr. Sp. Pub. 85, 55-56, 1928.

**Quarantine—When justified?**

- Ferris, So. Florist & Nurscrym. 28; 13, 9-10, 1929.

**Quarantine—White Pine blister-rust**

- Sheals, Amer. Flor. 35, 606, 1929.

**Quarantine—Why?**

- Lync, Proc. Ent. Soc. B. C. 22, 19-20, 1925.

**Quarantine—Wisconsin**

- Fracker, Cal. Dept. Agr. Sp. Pub. 54, 45-47, 1925.

**Quarantine—Wyoming**

- Corkins, Cal. Dept. Agr. Sp. Pub. 54, 25-28, 1925.

**Quaylea sp.—Parasite of Aphycus**

- Smith, Citrus Leaves 5: 8, 2, 1925.

**Quaylea whittieri**

- iSmith, Cal. Citrog. 11, 427, 1926.  
 Smith, J. Ec. Ent. 19, 298, 1926.  
 iSmith & Compere, Cal. Univ. Pubs. Ent. 4, 292-294, 1928.

**Question mark, see Grapta interrogacionis**

- Quichuana calathea, inca**  
nShannon, Proc. Ent. Soc. Wash. 27, 110-111, 1925.
- Quichuana knabi**  
nShannon, P.U.S.N.M. 70; 9, 15, 1927.
- Quill mite, see** *Picobia bipectinata*
- Quince curculio, see** *Conotrachelus crataegi*
- Quince insects**  
Crosby, et al, N.Y.C.B. 498, 73-74, '29.  
"Quit-claim" specialists vs. Making of manuals  
Blatchley, Brklyn. Ent. Soc. B. 23, 10-18, 1928.
- Rabbit-brush aphid, see** *Aphis gregalis*
- Rabbit tick, see** *Haemaphysalis leporis-palustris*
- Rabbit—Pests**  
iSchwartz & Shook, U.S.F.B. 1568, 1928, 30 p.
- Rachela bruciata**  
deGryse, Can. Dept. Agr. Ent. Br. Pam. 47 n.s. rev. ed., 11, 1925.
- Racheospila knobelaria**  
nCassino, Lepidopterist 4, 66-67, 1927.
- Rachinotomyia microcala**  
nDyar, Wash. Ent. Soc. Proc. 31, 61, '29.
- Raddish maggot, (Cabbage maggot)\* see** *Phorbia brassicae*
- Radio—and insects**  
Brain, Penn. Crop. Protec. Inst. C. 4; 8, 1, 1925.  
iHeadlee & Burdette, N. Y. Ent. Soc. J. 37, 59-64, 1929.  
Ray-dio Ray Corp., Better Fruit 23; 9, 17, 1929.
- Radium—Effect on insects**  
Hanson & Winkleman, J. Heredity 20, 277-285, 1929.
- Rainieria alternata, gilvimana**  
nCresson, Trans. Amer. Ent. Soc. 52, 268-269, 1926.
- Ranatra fusca**  
iHussey, Entom. Amer. 7 n.s.; 14-22, '26.
- Ranatra spp.—Anatomy of head and thorax**  
biNeiswander, Trans. Amer. Ent. Soc. 51, 311-320, 1925.
- Range crane fly, see** *Tipula simplex*
- Ransom, Brayton Howard—Obituary**  
iHall, Amer. J. Trop. Med. 5, 389-392, '25.  
Hall, Ewing & Rohwer, Proc. Ent. Soc. Wash. 27, 153, 1925.
- Raphaelonia n. gen., sulcatiscutum**  
Girault, Ins. Insc. Mens. 14, 62, 1926.
- Raphium aequalis**  
nVan Duzee, Pan-Pacific Ent. 3, 147, '27.
- \*Raspberry cane borer, see** *Oberea bimaculata*
- \*Raspberry cane maggot, see** *Phorbia rubivora*
- Raspberry crown borer, see** *Penisetia marginata*
- \*Raspberry fruit worm, see** *Byturus unicolor*
- Raspberry insects**  
Davis, Am. Fruit Grow. 46, 32, 1926.  
Garlick, Dom. Canada Agr. B. 114, 18-23, 1929.  
iMason, Spraying, 344-364, 1928.  
Rankin, N.Y. Gen. B. 543, 38, 1927.  
T., H. B. Rur. N.Y. 85, 1241, 1926.  
Van Meter, Mass. Ext. L. 48, rev. Feb. 1929, 12-13.  
bWinter, Minn. Tech. B. 61, 1929, 30 p.
- \*Raspberry leaf roller, see** *Exartema permundanum*
- \*Raspberry root borer, see** *Bembecia marginata*
- \*Raspberry sawfly, see** *Monophadnoides rubi*
- Rat flea—Surveys**  
iCarrion, P. R. Rev. Pub. Health 4: 2, 84-92, 1928.  
Cox, et al, Pub. Health R. 43, 611-616, '28.  
bFox & Sullivan, U. S. Public Health R. f. 1925, 1909-1934.  
Hasseltine, Am. J. Pub. Health 19, 1256-7, N. 1929.  
Hasseltine, U. S. Pub. Health Rep. 44, 579-636, 1929.  
ibHertig & Huang, Am. J. Hyg. 10, 521-525, 1929.
- \*Rat flea, see also** *Ceratophyllus fasciatus*
- Ravinia peniculata**  
Greene, P.U.S.N.M. 66: 29, 21, 1925.



**Raymondia spp.—Key**

Kessel, J.N.Y. Ent. Soc. 33, 24, 1925.

**Recurvaria bacchariella** 136-137, **ceanothiella** 129-130

Keifer, Pan-Pacific Ent. 4, 1928.

**Recurvaria condignella**—On pine

niBusck, Wash. Ent. Soc. Proc. 31, 13-15, 1929.

**Recurvaria eryngiella**

nBottimer, J. Agr. Res. 33, 812-813, '26.

**Recurvaria francisca**

nKeifer, Pan-Pacific Ent. 4, 130-132, '28.

**Recurvaria milleri**

iKeen, Cal. Dept. Nat. Res. B. 7, 79-80, 1928.

**Recurvaria pinella**

Needham, Frost &amp; Tothill, Leaf-mining insects, 1928, 165-166.

**Recurvaria robinella**

Bottimer, J. Agr. Res. 33, 813, 1926.

**\*Red admiral**, *see* **Vanessa atalanta****Red ant**, (Pharaoh's ant) *see* **Monomorium pharaonis****Red aschersonia**, *see* **Aschersonia aleyrodes****\*Red-backed cutworm**, *see* **Euxoa ochrogaster****Red-banded leaf-roller**, *see* **Eulia velutinana****\*Red-banded thrips**, *see* **Heliothrips rubrocinctus****Red and black cherry aphid**, *see* **Aphis tuberculata** ..**\*Red date scale**, *see* **Phoenicococcus marlatti****Red duck louse**, *see* **Philopterus dentatus****Red-edged saperda**, *see* **Saperda lateralis****Red-footed flea beetle**, *see* **Crepidodera rufipes****Red fungus**, *see* **Sphaerostilbe coccophila****\*Red harvester ant**, *see* **Pogonomyrmex barbatus****Red-headed ash borer**, *see* **Neoclytus erythrocephalus****Red-headed flea beetle**, *see* **Systema pallicornis****Red-head inch worm**, *see* **Semiothisa bisignata****\*Red-headed pine sawfly**, *see* **Neodiprion lecontei****Red-headed sheep louse**, *see* **Trichodectes sphaerocephalus****\*Red-humped apple caterpillar**, *see* **Schizura concinna****Red-humped oak caterpillar**, *see* **Symmerista albifrons****Red-legged flea beetle**, *see* **Crepidodera erythripus****\*Red-legged grasshopper**, *see* **Melanoplus femur-rubrum****\*Red-legged ham beetle**, *see* **Necrobia rufipes** ..**Red-legged saperda**, *see* **Saperda lateralis****\*Red milkweed beetle**, *see* **Tetraopes tetraophthalmus****\*Red-shouldered ham beetle**, *see* **Necrobia ruficollis****Red-shouldered shot-hole borer**, *see* **Xylobiops basilaris****Red spider**, *see* **Tetranychus telarius****\*Red turpentine beetle**, *see* **Dendroctonus valens****Reddish elm snout beetle**, *see* **Magdalis armicollis****Red-striped sugar cane scale**, *see* **Pulvinaria iceryi****\*Red turpentine beetle**, *see* **Dendroctonus valens****\*Red-winged pine beetle**, *see* **Dendroctonus rufipennis****Redgill**, *see* **Rithrogena mimus****Redi, Francesco**

iWeiss, Sci. Mo. 23, 220-224, 1926.

**Reduviidae**

iBruner, Mem. Soc. Cubana Hist. Nat. "Felipe Poey" 7; 1-2, 65-82, 1926.

iBruner &amp; Fracker, Ann. Ent. Soc. Amer. 19, 247-251, 1926.

iRadio, Kans. Univ. Sci. B. 16, 157-179, 1926.

iblRadio, Kans. Univ. Sci. B. 17: 1, 1927, 291 p.

**Reduvius personatus** (Masked hunter)\*

iFelt, N. Y. St. Mus. B. 274, 41, 1928.

iGibson &amp; Twinn, Can. Dept. Agr. B. 112, 68, 1929.

Walker, Flower Grow. 16, 304, 1929.

- Reedia—n. gen., robusta  
nAldrich, P.U.S.N.M. 74; 1, 17-18, 1928.
- Regal fritellary, *see* *Argynnis idalia*
- \*Regal moth, *see* *Citheronia regalis*
- Reichenbachia bifoveata, carinifer  
niFletcher, Ann. Ent. Soc. Amer. 21, 215-217, 1928.
- Reichenbachia femoralis  
nFletcher, Trans. Amer. Ent. Soc. 54, 74-75, 1928.
- Reichenbachia guatemalensis, latipes  
niFletcher, Ann. Ent. Soc. Amer. 21, 212-215, 1928.
- Reichenbachia limpida  
nFletcher, Trans. Amer. Ent. Soc. 54, 75-76, 1928.
- Remadosus—n. gen.  
nBall, Trans. Amer. Ent. Soc. 55, 3-4, '29.
- Rembus angusticollis  
nBlatchley, Can. Ent. 60, 61, 1928.
- Renodaella—n. gen., nicholi  
nKnight, Ent. News 38, 306-307, 1927.
- Renodaeus texanus  
nKnight, Brklyn. Ent. Soc. B. 21, 56-57, 1926.
- Repellents for insects  
Cleveland, J. Ec. Ent. 19, 529-536, 1926.  
McIndoo, Sci. Month. 25, 500-501, 1927.  
Amer. Agr. 116, 39, 1925.
- Repipta annulipes  
nBarber, Zoologica, N. Y. 5, 250, 1925.
- Research dividends  
iJardine, C. Gentl. 92: 12, 12, 1927.
- Respiration of insects, *see* Insects—Respiration
- \*Resplendent shield bearer, *see* *Coptodisca splendoriferella*
- Reticulitermes flavipes  
iDavis, Ind. C. 150, 16-18, 1928.  
Fernald, Applied Ent. ed. 2, 93, 1926.  
Gentner, Mich. Sp. B. 148, 19, 1925.  
Leiby, N. C. Dept. Agr. B. Feb. 1925, 62-64.  
iLyle, Miss. St. Plt. Bd. Quar. B. 7: 1, 13, 1927.  
iSnyder, Citrus Indus. 6; 4, 14, 1925.  
iSnyder, Sci. Mo. 28, 2, 149, 1929.
- Reticulitermes hesperus  
Essig, Pan-Pacific Ent. 3, 92, 1926.
- ibLight, Cal. C. 314, 18, 20, 1929.  
iPowell, Cal. Univ. Pubs. Zool. 31: 10, 179-200, 1928.
- Reticulitermes minimus  
niSnyder, J. Wash. Acad. Sci. 18, 515-517, 1928.
- Reticulitermes spp.  
Snyder, U. S. Dept. Agr. Leaf. 31, 2, '29.
- Reticulitermes—Subspecies  
bSnyder, Proc. Biol. Soc. Wash. 39, 1-6, 1926.
- Reticulitermes tibialis  
ibLight, Cal. C. 314, 19, 1929.  
bPark, Proc. Ent. Soc. Wash. 31; 121-126, 1929.  
iSnyder, Save the Surface Mag. 5; 4, 11, 1925.
- Reticulitermes virginicus  
iDavis, Ind. C. 150, 16-18, 1928.
- Retinodiplosus resinicoloides  
Keen, Cal. Dept. Nat. Res. B. 7, 92, '28.
- Reuteroscopus longirostris  
nKnight, Can. Ent. 57, 90, 1925.
- Rhabdopyris amabilis  
nFouts, Proc. Ent. Soc. Wash. 29, 165-166, 1928.
- Rhabdocephala n. gen., brunnea  
nVan Duzee, Pan-Pacific Ent. 5, 190-191, 1929.
- Rhabdocnemis obscurus (Hawaiian sugar cane borer)  
Cockerell, Science, 68, 566-567, 1928.  
bEarle, Facts About Sugar, 22, 1010, '27.  
Pemberton, Facts about Sugar 20, 682-690, 1925.  
Pemberton, La. Plant & Sugar Mfg. Co. Ref. Bk. Sugar Ind. of the World, 5: 5, 44, 1927.  
Poll, Facts about Sugar 21, 778, 1926.  
Vandenberg, Guam R. f. 1925, 18-19, '26.  
Vandenberg, Guam R. f. 1927, 15-17, '29.  
Facts about Sugar 20, 1052, 1925.  
iLaHacienda 20, 310-311, 1925.  
Sugar B. 4: 11, 5-6, 1926.
- Rhabdoides cellus  
Gunder, Ent. News 36, 196, 1925.
- Rhabdomastix isabella  
nAlexander, Ann. Ent. Soc. Amer. 20, 315, 1927.

- Rhabdomastix subcaudata, subfasciger*  
nAlexander, Can. Ent. 59, 191-193, 1927.
- Rhabdomastix (Sacandaga) usuriensis*  
nAlexander, P.U.S.N.M. 68, Art.4, 13, '25.
- Rhabdophaga essigi*  
nFelt, J. Ent. & Zool. 18, 79, 1926.
- Rhabdophaga hildebrandi*  
nFelt, J. Ent. & Zool. 20, 58, 1928.
- Rhabdophaga strobiloides* (Pine cone willow gall)  
Peirson, Me. For. Serv. B. 5, 123, 1927.
- Rhabdopterus picipes* (Cranberry root worm)  
Beckwith & Driggers, N. J. R. 1926-27, 139-141, 1928.  
Driggers, J. Ec. Ent. 20, 267-270, 1927.
- biPetch, Quebec Soc. Protec. Plants R. 17, 37-41, 1925.  
Petch & Armstrong, Quebec Soc. Protec. Plants R. 17, 76, 1925.
- Rhacodineura antiqua*  
Atwell, Oreg. St. Bd. Hort. Portland Insectaries R. f. 1927, 25-41.
- Rhacodineura* sp.  
Atwell, Oreg. St. Hort. Soc. Bien. R. 19, 102, 1927.
- Rhadine longicollis*  
nBenedict, Pan-Pacific Ent. 4, 44-46, '27.
- Rhagidia pallida*  
Miller, Ohio B. 386, 93, 1925.
- Rhagium lineatum* (Ribbed pine borer)  
Hardy & Preece, Pan-Pacific Ent. 3: 1, 35, 1926.  
iKeen, Cal. Dept. Nat. Resources B. 7, 64-65, 1928.  
Peirson, Me. For. Serv. B. 5, 109, 1927.
- Rhagodera laticeps*  
nBlaisdell, Proc. Cal. Acad. Sci. ser. 4, 14; 14, 326, 1925.
- Rhagoletis boycei*  
niCresson, Trans. Amer. Entom. Soc. 55, 413, 1929.
- Rhagoletis cingulata* (Cherry fruit fly)\*  
1-hCaesar, Ont. Fruit Grow. Assoc. R. 60: 42-43, 1929.  
iCaesar et al, Farm. Advoc. 60, 420, '25.  
Caesar & Ross, Ont. Ent. Soc. R. 58, 22, 1928.  
Cooley, Mont. B. 170, 26, 1925.
- iCrosby, et al, N.Y.C.B. 498, 57-58, 1929.  
Felt, N. Y. St. Hort. Soc. Proc. 73, 19-20, 1928.  
Gardner, Mich. R. f. 1926-1928, 15, '28.  
iGlasgow, Rur. N. Y. 85, 512, 1926.  
iGlasgow & Gambrell, N. Y. Gen. C. 87, 1926, 10 p.  
Glasgow, N. Y. Gen. C. 100, 1-2, 1927.  
Glasgow, Fr. Trade J. & Prod. Rec. 81: 14, 14, 1929.  
iGreene, J. Agr. Res. 38, 494, 1929.  
iHerrick, Rural N. Y. 84, 411, 1925.  
iHerrick, Rural N. Y. 87: 273, 1928.  
Herrick, N. Y. St. Hort. Soc. Proc. 74, 8-9, 1929.  
Jacobsen, Cal. Agr. B. 14, 150, 1926.  
Jacobsen, Cal. Agr. B. 14, 159, 1926.  
Jacobsen, Cal. Dept. Agr. Mo. B. 15: 124, 1926; 17, 671, 1928.  
Jardine, Oreg. Bien. Rept. f. 1924-1926, 99-100, 1926.
- iLovett, Oreg. Bd. Hort. R. 1923, 166-168.  
Park, Oreg. St. Bd. Hort. Bien. R. 19, 49, 1927.  
Parrott, The Canner, 62; 1, 23-27, 1925.  
Parrott, Amer. Fr. Gr. Mag. 46; 5, 17, 1926.  
Parrott, Canning Trade, 49; 27, 88-89, 1926.  
Parrott, Canning Trade 49; 32, 18, 20, 1926.  
Parrott, Canning Trade, 49; 33, 12, 14, 16, 1926.  
Parrott, N. Y. St. Hort. Soc. Proc. 71, 130-131, 1926; 72, 9-10, 1927.  
Pettit, Mich. C. B. 67, 1925, 2 p.  
iPettit, Mich. Ent. R. f. 1926, 15-17.  
iPettit, Mich. St. Bd. Agr. R. 65, 276-278, 1926.  
Pettit, Mich. St. Hort. Soc. R. 56, 135-138, 1926.  
Pettit, Mich. St. Bd. Agr. R. 66, 339-340, 1928.  
iPettit, Mich. Ent. R. f. 1927, 3-4.  
iQuayle, Cal. C. 315, 13-14, 1929.  
iRoss, Farm. Advoc. 60, 417, 1925.  
Ross, Ont. Fruit Grow. Assoc. R. 56, 60, 1925.  
Thatcher, N. Y. Gen. R. 46, 46, 1927.

**Rhagoletis fausta (Dark cherry fruit fly)**

- Pettit, Mich. C. B. 67, 1925.  
 Pettit, Mich. C. B. 86, 3-9, 1926.  
 iQuayle, Cal. C. 315, 13-14, 1929.  
 Ruhmann, B. C. Dept. Agr. Rep. 20, 1.  
 1925, P. 34, 1926.  
 Thatcher, N. Y. Gen. R. 46, 46, 1927.

**Rhagoletis juglandis (Walnut husk fly)\***

- Boyce, J. Ec. Ent. 22, 269-270, 1929.  
 ihl-hBoyce, J. Ec. Ent. 22, 861-866, 1929.  
 iGammon, Cal. Dept. Agr. Mo. B. 17.  
 603-605, 1928.  
 Jacobsen, Cal. Dept. Agr. Mo. B. 17;  
 672, 1928.  
 Mackie, Cal. Dept. Agr. Mo. B. 17;  
 677, 1928.  
 Merrill, Cal. R. f. 1927-28, 33, 1929.  
 iQuayle, Cal. C. 315, 15-16, 1929.  
 Wolff, Cal. Cult. 71, 547, 1928.

**Rhagoletis pomonella (Apple maggot)\*  
(Blueberry maggot)\***

- Bourne, Mass. B. 226, 21, 1926.  
 Bourne, Mass. Fr. Grow. Assoc. R. 34.  
 69-71, 1928; R. 35, 122-123, 1929.  
 iBrittain, N. S. Dept. Nat. Resource B.  
 12, 38-39, 1927.  
 Britton, Mass. Fr. Grow. Assoc. R. 31,  
 126-7, 1925; R. 32, 175-180, 1926.  
 Caesar, Ont. Fr. Grow. Assoc. R. 59,  
 38-48, 1927.  
 Caesar, Canadian Hort. Fruit & Truck  
 ed., 41, 31, 1928.  
 Caesar, Ont. Ent. Soc. R. 59, 93-95, '29.  
 l-hCaesar, Ont. Fr. Grow. Assoc. R. 60:  
 41-42, 1929.  
 Crosby, et al, N.Y.C.B. 498, 38-40, 1929.  
 Felt, N. Y. St. Hort. Soc. Proc. 70, 58, '25.  
 Fernald, Applied Ent. ed. 2, 322-324, '26.  
 Gibson & Twinn, Can. Dept. Agr. B.  
 112, 56, 1929.  
 Gorham, et al, Ont. Ent. Soc. R. 59, 15,  
 1929.  
 iGreene, J. Agr. Res. 38, 494-495, 1929.  
 Guyton & Knull, Penn. Dept. Agr. C.  
 1, 1925, 8 p.  
 Herrick, N. Y. St. Hort. Soc. Proc. 74,  
 9-11, 1929.  
 Houser, Ohio St. Hort. Soc. Proc. 60,  
 108-109, 1927.

Howard, U.S.D.A. Ent. R. f. 1927, 2.

iKelsall, Mass. Fr. Grow. Assoc. R. 34,  
 86-100, 1928.

Kelsall, Nova Scotia Fr. Grow. Assoc.  
 R. 62, 56-61, 1925; 65, 75-76, 1929.

Lathrop, Observer 1: 33, 8, 1928.

Mundinger, Proc. N. Y. Hort. Soc. 72,  
 138-143, 1927.

Nafziger, Mich. Farm. 173, 50, 1929.

Nichols, Seed World, 26; 11, 29, 1929.

O'Kane, N. Eng. Homestead, 99; 23,  
 10, 1929.

Parrott, Conn. Pomol. Soc. Proc. 35,  
 57-58, 1926.

Parrott, Proc. N. Y. Hort. Soc. 72, 6, '27.

Petch & Armstrong, Quebec Soc. Pro-  
 tec. Plants R. 17, 74, 1925.

iPettit, Mich. C. B. 87, 3-7, 1926.

Pettit, Mich. Ent. R. f. 1926, 19.

Pettit, Mich. St. Bd. Agr. R. 65, 280, '26.

Pettit, Mich. St. Bd. Agr. R. 66, 346, '28.

iPettit, Mich. Ent. R. f. 1927, 10.

iPettit, Mich. Ext. B. 79, 1929, 4 p.

Pettit, Wisc. Hort. 19, 298, 1929.

iPhipps, Me. Ext. C. 100, 1-2, 1929.

ibPorter, U.S.D.A. Tech. B. 66, 1928, 48 p.

iQuayle, Cal. C. 315, 13-14, 1929.

Ries, J. Ec. Ent. 20, 144-146, 1927.

Ross & Caesar, Ont. Ent. Soc. R. 58,  
 16, 1928.

Spittall, Proc. Acadian Ent. Soc. 10,  
 61, 1925.

Spittall, Ont. Ent. Soc. R. 58, 10, 1928.

T.: H. B., Rural N. Y. 85, 645, 1926.

Thies, Mass. Fr. Grow. Assoc. R. 34,  
 79-85, 1928.

Tukey, Rural N. Y. 84, 995, 1925.

Van Meter, Flower Grow. 12, 467, 1925.

Amer. Fr. Gr. Mag. 46; 4, 16, 1926.

Flower Grow. 15, 455, 1928.

Nat. Canners Assoc. B. 103, A31-32, '28?

Ont. Ent. Soc. R. 58, 19-20, 1928.

Wash. Farm. 54, 285, 1928.

Wis. Hort. 18, 32-33, 1927.

**Rhagoletis sp.**

Los Angeles Co. Hort. Com. R. f. '29, 18.

**Rhagoletis spp. revision**

Cresson, Trans. Amer. Entom. Soc.  
 55, 401-413, 1929.

- Rhagoletis suavis**(Walnut husk maggot)  
 iBoyce, Diamond Walnut News 11: 1,  
 15 & 19, 1929.  
 Cory, Northern Nut. Grow. Assoc. R.  
 18, 49, 1927.  
 niCresson, Trans. Amer. Ent. Soc. 55,  
 412, 1929.  
 O'Kane, Cal. Dept. Agr. Mo. B. 18,  
 437, 1929.  
 Thorpe, Cal. Walnut Grow. Assoc.  
 Ann. R. 1928, 11, 1929.  
 Amer. Nut J. 31: 3, 52, 1929.  
 Cal. Dept. Agr. Mo. B. 18, 629, 1929.  
 Los Angeles Co. Hort. Com. R. f.'29 2.
- Rhagovalia calopa**  
 nDrake & Harris, Proc. Biol. Soc.  
 Wash. 40, 135, 1927.
- Rhagovalia choreutes**  
 nHussey, J.N.Y. Ent. Soc. 33, 67-69, '25.
- Rhagovalia excellentis**  
 nDrake & Harris, Proc. Biol. Soc. Wash.  
 40, 134, 1927.
- Rhagovalia gigantea**  
 nGould, Annals Ent. Soc. Amer. 21:  
 417-418, 1928.
- Rhagovalia gregalis** 136, **hirtipes** 136,  
**knighti** 133, **regalis** 137, sp. 131-137  
 Drake & Harris, Proc. Biol. Soc. Wash.  
 40, 1927.
- Rhamphina leonardi**  
 nWest, J.N.Y. Ent. Soc. 33, 134-135, '25.
- Rhamphomyia bigelowi**  
 niWalley, Can. Ent. 59, 97-98, 1927.
- Rhamphomyia birdi**, **luteiventer**  
 nCurran, Amer. Mus. Nov. 339, 7-8, '29.
- Rhantus hubbelli**  
 nHatch, Brklyn. Ent. Soc. B. 23: 224-  
 229, 1928.
- Rhaphidolabina sibirica**  
 nAlexander, P.U.S.N.M. 68; 4, 10, 1925.
- Rhaphidolabis avis**  
 nAlexander, Ent. News 37, 50-51, 1926.
- Rhaphidolabis rogersiana**  
 nAlexander, Ent. News 36, 204, 1925.
- Rhaphidolabis tergata**  
 nAlexander, Ann. Ent. Soc. Amer. 19,  
 172-173, 1926.
- Rhaphium ciliatum**  
 nCurran, Can. Ent. 61, 30-31, 1929.
- Rhaphium gibsoni**  
 nCurran, Can. Ent. 58, 171-172, 1926.
- Rhapigia**—n. gen., **deicola**  
 nSchaus, P.U.S.N.M. 73; 19, 70, 1928.
- Rhembobius abdominalis**  
 nCushman, P.U.S.N.M. 76; 25, 3, 1929.
- Rhexia kartabensis**  
 niHaviland-Brindley, Zoologica, N. Y.  
 6, 244, 1925.
- Rhynopeltella dei**  
 nGirault, Ins. Insc. Mens. 14, 65, 1926.
- Rhinacloa subpallicornis**  
 nKnight, Brklyn. Ent. Soc. B. 20, 225-  
 226, 1925.
- Rhingia lateralis**  
 nCurran, Ann. Ent. Soc. Amer. 22: 496-  
 497, 1929.
- Rhingia trivittata**  
 nCurran, Amer. Mus. Nov. 340, 11-12, '29.
- Rhinia deceptor**  
 nAmer. Mus. Nov. 246, 2, 1927.
- Rhinia pallidula**  
 nCurran, Amer. Mus. Nov. 246, 1-2, '27.
- Rhinoplus fulvus**  
 nBrues, Proc. Amer. Acad. Arts & Sci.  
 61, 259-260, 1926.
- Rhinotermes (Schedorhinotermes) lama-  
 nianus**  
 niEmerson, Am. Mus. Nat. Hist. B. 57,  
 429-430, 1928.
- Rhinotermes latilabrum**, **manni**  
 inSnyder, P.U.S.N.M. 68, Art. 14, 7-9, 9-  
 12, 1926.
- Rhinotermes marjoriae**  
 nSnyder, J. Wash. Acad. Sci. 15, 404-  
 405, 1925.
- Rhinotermes nasutus**  
 Bequaert, Ent. News 36, 293-294, 1925.
- Rhinotermes sanctae-crucis**, **solomonen-  
 sis**  
 nSnyder, J. Wash. Acad. Sci. 15, 405-  
 407, 1925.
- Rhinotermitidae**  
 Snyder, P.U.S.N.M. 68, Art. 14, 7, '26.
- Rhipicephalus haemaphysaloides**  
 Teh, Chun & Pollitzer, Amer. J. Hy-  
 giene 5, 201, 1925.

- Rhipicephalus sanguineus* (Brown dog tick)\*  
 Dunn, Amer. J. Trop. Med. 9, 508, '29.  
 iHall, U.S.D.A. Dept. C. 338, '25, 11-13.  
 Vandenberg, Guam R. f. 1927, 15, 1929.
- Rhipidia agglomerata, multifida*  
 nAlexander, Ann. Ent. Soc. Amer. 19, 159-161, 1926.
- Rhipidia shannoni*  
 Rogers, Fla. Ent. 10; 1, 7, 1926.
- Rhipidia (Monorhipidia) sibirica*  
 nAlexander, P.U.S.N.M. 68; 4, 6-7, 1925.
- Rhipiphoridae*  
 ibRivnay, Amer. Ent. Soc. Mem. 6, 1929, 68 p.
- Rhipiphorus aurantus* 55-57, *brevipes* 46-50, *calopterus* 45, *iridescens* 60, *mutchleri* 57-58, *neomexicanus* 50-51, *nomiae* 51-52, spp.—Key 42-43  
 nbRivnay, Amer. Ent. Soc. Mem. 6, 1929.
- Rhisocerus falcifer* (Soil mealybug)  
 Flor. Exch. 60; 21, 1687, 1925.
- Rhithrogena* gen.  
 McDunnough, Can. Ent. 58, 195-196, '26.
- Rhithrogena anomala*  
 nMcDunnough, Can. Ent. 60, 239-240, '28.
- Rhithrogena doddsi*  
 nMcDunnough, Can. Ent. 58, 196, 1926.
- Rhithrogena mimus*  
 iNeedham, Can. Ent. 59, 133-136, 1927.
- Rhizagrotis cloanthoides*  
 McDunnough, Can. Ent. 59, 64, 1927.
- Rhizagrotis epipsilioides*  
 Barnes & Benjamin, Pan-Pacific Ent. 2, 106, 1926.
- Rhizidiocystis ananasi*  
 nibSideris, Phytopath. 19, 367-382, 1929.
- Rhizobius ventralis* (Black lady beetle)\*  
 iSmith, Cal. Citrog. 11, 414, 1926.  
 Smith, J. Ec. Ent. 19, 296, 1926.
- Rhizoglyphus hyacinthi* (Bulb mite)\*  
 Broadbent, J. Ec. Ent. 20, 112, 1927.  
 Dahlgren, Iowa Hort. Soc. Trans. 60, 190-192, 1925.  
 Doucette, Florists' Exch. 62: 377, '1926.  
 iIllingworth, Hawaii Pine. Cann. Assoc. Pine. News 1, 133, 1927.  
 Jacobssen, Cal. Agr. B. 14, 167, 1926.
- Jardine, Oreg. Bien. Rept. 1924-1926, 104, 1926.
- Lieber, Ind. Dept. Conserv. R. 9, 58, '27.  
 Lieber, Ind. Dept. Conserv. R. 10, 69-70, 1928.
- Locklin & Newton, West. Wash. B. 13, W. n.s. 8, 1929.
- McCoun, Phytopathology, 19; 3, 311-315, 1929.
- iMcDaniel, Mich. Sp. B. 173, 1928, 23 p.
- Miller, Ohio B. 386, 151-152, 1925.
- Severin, So. Dak. Ent. R. 15, 49-51, '24.
- Wilcox, Oreg. St. Hort. Soc. R. 18, 130, '26.
- Rhizoglyphus phylloxerae*  
 iIllingworth, Hawaii Pine. Cann. Assoc. Pine. News 1, 132-134, 1927.  
 Miller, Ohio B. 386, 152, 1925.
- Rhizopertha dominica*  
 iBack & Cotton, U.S.F.B. 1260; rev. Dec. 1925, 10-12.
- Rhodanthidium*—Subgen.  
 nIsensee, Annals Carnegie Mus. 17, 374, 1927.
- Rhodites dichlocerus*  
 Felt, N.Y. St. Mus. B. 274, 170, 1928.
- Rhodites rosae*  
 Cockerell, J. Ec. Ent. 19, 868, 1926.  
 Spittall, Proc. Acadian Ent. Soc. 10, 68, 1925.
- Rhodites semipiceus*  
 Weld, P.U.S.N.M. 68, art. 10, 126, 1926.
- Rhodnius prolixus*  
 Uribe, J. Parasitol. 12, 213-215, 1926.  
 ibUribe, J. Parasitol. 13, 129-136, 1927.
- \**Rhododendron lacebug*, see *Stephanitis rhododendri*
- Rhodoneura terminalis*  
 Morrill, J. Econ. Ent. 19, 572, 1926.
- Rhogas bevisi* 253-255, *insignis* 251-252, *maculicornis* 252-253, *saturatus* 250-251  
 nBrues, Proc. Amer. Acad. Arts & Sci. 61, 1926.
- Rhogagaster kudianus*  
 nRohwer, P.U.S.N.M. 68; 8, 6, 1925.
- Rhopalandrothrips corni*  
 nMoulton, Pan-Pacific Ent. 4, 34-35, '27.

- Rhopalicus pulchripennis**  
ibTaylor, Ent. Amer. 10; 66-67, 1929.
- Rhopalocera**  
Brown & Heffron, J.N.Y. Ent. Soc. 36, 165-168, 1928.  
iGunder, Ent. News 37, 1-9, 1926.  
iGunder, Ent. News 38, 129-138, 1927.  
iGunder, Bklyn. Ent. Soc. B. 24, 325-332, 1929.  
Nakahara, Brooklyn Ent. Soc. B. 20, 221-224, 1925.
- Rhopalogaster bella**  
nBromley, Ent. Soc. Amer. Ann. 22, 283-284, 1929.
- Rhopalomastix rothneyi**  
niWheeler, Psyche, 36, 96-101, 1929.
- Rhopalomyia grossulariae** (Gooseberry bud midge)  
Jardine, Oreg. Bien. Rept. 1924-1926, 101, 1926.
- Rhopalosiphum boosekiae**  
niGillette & Palmer, Ann. Ent. Soc. Amer. 22: 474-475, 1929.
- Rhopalosiphum hippophaes**  
Glendenning, Proc. Ent. Soc. B. C. 22, 37, 1925.
- Rhopalosiphum nymphaeae**  
Quaintance & Baker, U.S.F.B. 1128; rev. Apr. 1926, 14.
- Rhopalosiphum padi** (Oat aphid)  
Quaintance & Baker, U.S.F.B. 1128; rev. Apr. 1926, 8-10.
- Rhopalosiphum persicae**, (Green peach aphid)\*, *see* *Myzus persicae*
- Rhopalosiphum prunifoliae**  
iBrittain, N. S. Dept. Nat. Resource B. 12, 48, 1927.  
Cutright, Ohio B. 387, 198, 1925.  
biLathrop, Ohio J. Sci. 28, 181, 1928.  
Parrot, Mich. St. Hort. Soc. R. 59, 84, '29.  
Pettit, Mich. Sp. B. 183, 55, 1929.  
iQuaintance & Baker, U.S.F.B. 1128; rev. Apr. 1926, 8-10.
- Rhopalosiphum pseudoavenae**  
iQuaintance & Baker, U.S.F.B. 1128; rev. Apr. 1926, 17-18.
- Rhopalosiphum pseudobrassicae** (Turnip aphid)\*  
iBrittain, N. S. Dept. Nat. Resource B. 12, 81-82, 1927.  
Brunson, Clemson Col. S.C. Weekly News Notes 17: 12, 1928.  
Caesar, Ont. Dept. Agr. B. 325, 33-34, '27.  
Caesar, Ont. Ent. Soc. R. 57, 41-43, '27.  
Headlee, N.J.C. 178, 8-9, 1925.  
Hull, J. Ec. Ent. 22, 774-777, 1929.  
Leiber, Ind. Dept. Conserv. R. 8, 49, '26.  
Pettit, Mich. St. Bd. Agr. R. 66, 347-348, 1927.  
iPettit, Mich. Ent. R. f. 1927, 11-12.  
Pettit, Mich. Sp. B. 183, 14-15, 1929.  
Watson, Fla. Dept. Agr. Quar. B. 39: 3; 75-76, 1929.  
Farm. Adv. 61, 1191, 1926.  
iMiss St. Pl. Bd. Quar. B. 5: 2, 6-7, '25.
- Rhopobota naevana** (Black-headed fire-worm)\*  
Brown, Oreg. B. 225, 17-18, 1927.  
Franklin, Cape Cod Cranb. Gr. Assoc. R. 36, 5, 1924.
- Rhopobota vacciniana**, *see* *Eudemis vacciniana*
- Rhopolosiphum rufomaculata**  
Severin, So. Dak. Ent. R. 15, 13, 1924.
- Rhopalosomatidae** gen. — key  
Brues, Psyche 33, 1, 19, 1926.
- \***Rhubarb curculio**, *see* *Lixus concavus*
- Rhuda decepta**  
nSchaus, P.U.S.N.M. 73; 19, 31, 1928.
- Rhyacionia** (Evetria) **buoliana** (European pine-shoot moth)\*  
Britton, Conn. B. 285, 277-278, '26 (1927).  
Britton & Zappe, Conn. B. 292, 162, '27.  
Downes, Proc. Ent. Soc. B.C. 25: 17, '28.  
Felt, J. Ec. Ent. 20, 66, 1927.  
Heinrich, J. Wash. Acad. Sci. 16, 105, '26.  
Hutchings, Quebec Soc. Protec. Pl. R. 18, 115-116, 1925-1926.  
McLaine, Ont. Ent. Soc. R. 56, 71-72, '26.  
McLaine, Ont. Ent. Soc. R. 57, 22, 1927.  
Motherwell, Can. Min. Dept. Agr. R. f. 1929, 124.  
Peirson, Me. For. Serv. B. 5, 100, 1927.  
iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 45, 1926.

- Webber, J. Ec. Ent. 20, 302, 1927.  
Conn. B. 265, 339, 1925.
- Rhyacionia comstockiana**  
Peirson, Me. For. Serv. B. 5, 100, 1927.  
Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 44, 1926.
- Rhyacionia dativa**  
niHeinrich, Proc. Ent. Soc. Wash. 30, 61-62, 1928.
- Rhyacionia frustrana** (Nantucket pine moth)  
iHayes & Wakely, La. St. Univ. Agr. & Mech. Col. B. n.s. 21, 3, 32-34, '29.  
Johnston, Boston Soc. Nat. Hist. B. 49, 3, 1928.  
Peirson, Me. For. Serv. B. 5, 100, 1927.  
ibiSwenk, Neb. Res. B. 40, 1927, 50 p.  
iCushman, J. Agr. Res. 34, 615-622, '27.  
Cushman, J. Agr. Res. 34, 739-741, '27.  
Gahan, J. Agr. Res. 34, 545-548, 1927.  
ilGraham & Baumhofer, J. Agr. Res. 35, 320-333, 1927.  
Wakeley, Internat. Cong. Ent. 4, Tr. 2, 865-868, 1929.
- Rhyacionia pasadenana**  
Keen, Cal. Dept. Nat. Resources Div. For. B. 7, 83-84, 1928.
- Rhyacionia simulata**  
niHeinrich, Proc. Ent. Soc. Wash. 30, 62-63, 1928.
- Rhyacophila abrata**  
Dodds & Hisaw, Ecology 6, 129, 1925.
- Rhyacophila gordonii**  
Sibley, J.N.Y. Ent. Soc. 34; 1, 79, '26.
- Rhymosia parvicauda** 48-49, **plumosa** 49, **spinicauda** 47-48  
niVan Duzee, Cal. Acad. Sci. Proc. 17; 2, 1928.
- Rhynchites aureus**  
Weiss, Ent. News 37, 297-299, 1926.
- Rhynchites bicolor** (Rose curculio)  
Cooley, Mont. B. 170, 28, 1925.  
Pettit, Mich. St. Bd. Agr. R. 66, 355, 1927 (1928).
- Rhynchites delectus** 292-293, **insularis** 293-294, **quadripennis** 292  
nFall, Bklyn. Ent. Soc. B. 24, 1929.
- Rhynchium nitidulum**  
Hingston, Instinct & Intelligence, 1929, 70-73, 212-219.
- Rhynchodexia elevata**, **translucipennis**  
nWest, J.N.Y. Ent. Soc. 33, 135, 1925.
- Rhyncholophus parvus**  
bFluke, Wis. Res. B. 93, 6, 1929.
- Rhynchophora**  
nBlatchley, J.N.Y. Ent. Soc. 33, 87-113, '25.  
Blatchley, N.Y. Ent. Soc. Jour. 36, 235-262, 1928.
- Rhynchophorus** gen.—History  
Peirce, Proc. Ent. Soc. Wash. 27, 113, '25.
- Rhynchophorus cruentatus**  
Bare, J. Econ. Ent. 22, 986, 1929.
- Rhynchothrips ampelopsidis**  
nMoulton, Brooklyn Ent. Soc. B. 22, 197, 1927.
- Rhynchothrips brevitubus**  
nMoulton, Pan-Pac. Ent. 6: 19-20, 1929.
- Rhynchothrips debilis**  
nHood, Can. Ent. 57, 218, 219, 1925.
- Rhynchothrips piger**  
nHood, Ent. News 36, 134-135, 1925.
- Rhynchothrips rostratus**  
nHood, Proc. Biol. Soc. Wash. 40, 203, '27.
- Rhynchothrips russelli**  
nHood, Brooklyn Ent. Soc. B. 20, 31, '25.
- Rhynchothrips usitatus**  
niHood, Proc. Ent. Soc. Wash. 29, 113-115, 1927.
- Rhynchothrips versicolor**  
nMoulton, Bklyn. Ent. Soc. B. 24; 239-240, 1929.
- Rhyncolus** sp.  
Keen, Cal. Dept. Nat. Resources B. 7, 72, 1928.
- Rhyncopterix salina**  
niDozier, J.N.Y. Ent. Soc. 35, 53-54, 1927.
- Rhyparochromus chiragra californicus**—  
n. var.  
Van Duzee, Pan-Pac. Ent. 5, 47, 1928.
- Rhysogaster**—n. gen., **implicata**  
niAldrich, P.U.S.N.M. 72; 9, 3-4, 1928.
- Rhyssa** sp.—Parasites  
Science 69, 152, 1929.
- Rhyssematus lineaticollis**  
Conn. B. 265, 336, 1925.



- Rhyssemus neglectus, puncticollis*  
nBrown, Can. Ent. 61, 91-92, 1929.
- Rhytidolomia schotti*  
nBarber, Bklyn. Ent. Soc. B. 24, 243-244, 1927.
- Ribbed cocoon maker, *see* *Bucculatrix pomifoliella*
- Ribbed pine borer, *see* *Rhagium lineatum*
- Rice insects  
Essig, Pan-Pacific Ent. 4, 128, 1928.  
Fey, J. Ec. Ent. 18, 435, 1925.  
Fukuda & Sato, Rice Jour. 30; 4, 12, '27.  
Hermes, Pan-Pac. Ent. 4, 91-92, 1927.  
iIngram, U.S.D.A. F.B. 1543, '27, 15 p.  
Agr. Insect & Fung. Mfg. Assoc. B. 41, 11-12, 1926.  
Rice Journal 31: 8, 18, 1928.
- Rice moth, *see* *Corcyra cephalonica*
- \*Rice water weevil, *see* *Lissorhoptrus simplex*
- \*Rice weevil, *see* *Sitophilus oryzae*
- Ricinulei—Synopsis  
ibEwing, Ann. Ent. Soc. Amer. 22, 583-600, 1929.
- Rickettsia ruminantium*  
iCowdry, J. Exper. Med. 42, 231-274, 817-830, 1925.
- Rickettsia disease  
McKinley, P. R. Rev. Pub. Health 4: 11, 538-542, 1929.
- Ricosia*, n. gen., *setigena*  
nCurran, Amer. Mus. Nov. 260, 5-6, '27.
- Ricula*, n. gen.  
iHeinrich, U. S. Nat. Mus. B. 132, 18, '26.
- Rifargia auscharia* 45, *everiti* 46-47, *haitia* 44-45, *possida* 46  
nSchaus, Proc. U.S. Nat. Mus. 73; 19, '28.
- \*Ring-legged earwig, *see* *Euborellia annulipes*
- Ripersia arenaria*  
niDoane & Steinweden, Pan-Pac. Ent. 4: 2; 85-86, 1927.
- Ripersia radiculicola*  
bEarle, Facts About Sugar 22, 1012, '27.  
niMorrison, J. Agr. Res. 33, 757-759, '26.  
iStahl, J. Ec. Ent. 20, 392-399, 1927.
- iStahl, Trop. Plant Res. Found. Sci. Cont. 8, 392-399, 1927.
- iStahl & Scaramuzza, Trop. Pl. Res. Found. B. 10, 3-7, 1929.
- Ripersia* sp.  
nMyers, Harvard Inst. Trop. Biol. & Med. Cont. 3, 99, 1926.
- Rithrogena elegantula, mimus*  
iNeedham & Christenson, Utah B. 201, 13-15, 1927.
- Rivellia abana*  
inCurran, Amer. Mus. Nov. 339, 11, 1929.
- River insects—No. Utah  
iNeedham & Christenson, Utah B. 201, 1927, 36 p.
- Roaches, *see* *Cockroaches*
- Roadside grasshopper, *see* *Camnula pelliculida*
- Robber flies, *see* *Asilidae*
- Robertus eremophilus*  
Chamberlin & Gertsch, Proc. Biol. Soc. Wash. 41, 180, 1929.
- Robinson, Coleman T.—Obituary  
H. S., Ent. News 36, 309, 1925.
- \*Rocky Mountain grasshopper, *see* *Melanoplus spretus*
- Rocky Mountain spotted fever tick, *see* *Dermacentor venustus*
- Rodents—Nigeria—Parasites  
bPearse, J. Mammalogy 10, 229-239, '29.
- Rodolia cardinalis*  
Thompson, Fla. Ent. 11, 51, 1928.  
iWatson, Fla. B. 183, 333-335, 1926.
- Romalea microptera* (Eastern lubber grasshopper)\*  
iHebard, Trans. Amer. Ent. Soc. 51, 2-7, 1925.  
Westmoreland, Fla. Ent. 11, 54, 1928.
- Romaleum cortiphagus*  
Champlain, Kirk & Knull, Ent. News 36, 105, 1925.
- Romaleum cylindricum*  
nKnull, Ent. News 38, 116-117, 1927.
- Root-eating insects  
Call, Kans. R. f. 1926-28, 74-75.
- \*Rose aphid, *see* *Macrosiphum rosae*

- \*Rose chafer, *see* *Macroductylus subspinosus*
- \*Rose curculio, *see* *Rhynchites bicolor*
- Rose insects  
 Caesar, Farmers' Advocate 60, 601, '25.  
 Dean, Delineator 115, 88-89, 1929.  
 Gemmill, Wis. Hort. 15, 117, 1925.  
 Mass. Hort. Soc. Yearbook 2, 48-50, '25.
- Rose leaf beetle, *see* *Nodonota puncticollis*
- Rose leaf hopper, *see* *Empoa rosae*
- \*Rose midge, *see* *Dasyneura rhodophaga*
- \*Rose sawfly, *see* *Caliroa aethiops*
- \*Rose scale, *see* *Aulacaspis rosae*
- Rose stem girdler, *see* *Agrilus viridis*
- Ross Institute  
 iMead, Hygeia 6, 339-342, 1928.
- \*Rosy apple aphid, *see* *Anuraphis roseus*
- Rough bullet gall, *see* *Disholcaspis mamma*
- \*Round-headed apple tree borer, *see* *Saperda candida*
- Round-headed ash borer, *see* *Tylonotus bimaculatus*
- Round-headed borers, *see* *Monochamus* spp.
- Round-headed hemlock borer, *see* *Xylotrechus fuscus*
- \*Round-headed pine beetle, *see* *Dendroctonus convexifrons*
- Rubrica—n. gen.  
 niParker, P.U.S.N.M. 75; 5, 53-54, 1929.
- Rufous scale, *see* *Pseudaonidia articulatus*
- Rusicada fulvida—Pa.  
 Laurent, Ent. News 38, 320, 1927.
- Rust red flour beetle, *see* *Tribolium ferrugineum*
- Rustic borer, *see* *Xylotrechus colonus*
- Rusty leaf mite, *see* *Phyllocoptes schlectendali*
- \*Rusty plum aphid, *see* *Hysteroneura setariae*
- \*Rutty tussock moth, *see* *Notolophus antiqua*
- Rybaxis arkansana  
 nFall, Psyche, 34, 226, 1927.
- Rybaxis geminata 225-226, obliquegens 222, sp.—North America 218-226, transversa 223-224  
 nFall, Psyche, 34, 1927.
- Sabethes bipartites, spp.—Key  
 Dyar, Ins. Insc. Mens. 13, 27, 104, '25.
- Sabethoides bipartites—Larval habits  
 Bonne-Webster & Bonne, Ins. Insc. Mens. 13, 32, 1925.
- Sabethoides glaucodaemon  
 nDyar & Shannon, J. Wash. Acad. Sci. 15, 39, 1925.
- Sabethoides prolepidis  
 Dyar, Ins. Insc. Mens. 14, 179-182, 1927.
- Sabulodes caberata  
 Barnes & Benjamin, Pan-Pacific Ent. 3: 1, 41, 1926.
- Sabulodes rubritincta  
 nCassino & Swett, Lepidopterist 4, 37, '25.
- Sacbrood  
 Britton, Conn. B. 305, 706-707, 1929.
- Saccarophagos mochisa  
 Van Zwaluwenburg, J. Ec. Ent. 19, 668, 1926.
- Saccharosydne saccharivora  
 Myers, Harvard. Inst. Trop. Biol. & Med. Cont. 3, 87-88, 1925.
- \*Saddle-back caterpillar, *see* *Sibine stimulea*
- Safford, William Edwin—1859-1926  
 U.S.D.A. Official Record 5; 3, 4, 1926.
- Safia amella  
 niHaimbach, Trans. Amer. Ent. Soc. 54, 231, 1928.
- Sagaritis aequalis  
 nViereck, Can. Ent. 58, 122, 1926.
- Sagaritis atkinsoni  
 King & Atkinson, Ann. Ent. Soc. Amer. 21, 173, 1928.
- Sagaritis apicalis 36, apicatus 128, approximalis 231-232, atkinsoni 38, atypicus 36, basilis 128, beaulieur 38, bigelowi 33, chrystali 77, cingulatus 35-36, citrinus 123-124  
 nViereck, Can. Ent. 58, 1926.
- Sagaritis clittellarius  
 nWalley, Can. Ent. 59, 232, 1927.

*Sagaritis conspicuosus* 123, *diversus* 33, *downesi* 36-37, *englishi* 75, *evansi* 74, *garretti* 129, *gorhami* 73-74, *hexagonalis* 37-38, *hoppingi* 76, *imperfectus* 127, *incompletus* 71, *inconspicuus* 123, *intermedius* 34, *interruptus* 127-128, *julius* 125, *ingi* 77-78, *laevis* 124, *latus* 37, *linearis* 76, *lipomerus* 32, *lipopus* 35, *maius* 125, *medius* 34, *melanocerus* 123, *melanomerus* 122-123, *melanosomus* 71-72, *modestus* 126-127, *nigricoxus* 74-75, *nigriscapus* 128-129

nViereck, Can. Ent. 58, 1926.

***Sagaritis nigriscapus***

nWalley, Can. Ent. 59, 232, 1927.

***Sagaritis nigrisignatus***

nViereck, Can. Ent. 58, 71, 1926.

***Sagaritis oxyllus***

Beckwith, J.N.Y. Ent. Soc. 37, 415, '29.

Beckwith & Driggers, N.J.R. 1926-27, 139, 1928.

***Sagaritis parasignatus***

nWalley, Can. Ent. 59, 232-233, 1927.

***Sagaritis ruficrus***

nViereck, Can. Ent. 58, 127, 1926.

niWalley, Can. Ent. 59, 233-234, 1927.

***Sagaritis rufiscapus* 75, *rufosignatus* 23-35, *septentrionalis* 76-77, *signatus* 72**

nViereck, Can. Ent. 58, 1926.

***Sagaritis* spp.**

Viereck, Can. Ent. 57, 198-201, 1925.

nWalley, Can. Ent. 58, 225, 1926.

Walley, Can. Ent. 59, 227-231, 1927.

***Sagaritis stramineiscapus* 126, *strigosus***

73, *taylori* 126, *teulonensis* 124-125,

*tibialis* 77, *trackas* 72-73, *twinni* 72,

*unicolor* 33-34

nViereck, Can. Ent. 58, 1926.

***Sagaritis vierecki***

niWalley, Can. Ent. 59, 233, 1927.

***Sagaritis xanthotaenius***

nViereck, Can. Ent. 58, 37, 1926.

***Sais klagesi***

niAvinoff, Ann. Carnegie Mus. 16, 364, 1926.

***Saissetia auriculata***

niMorrison, Ann. Ent. Soc. Amer. 22, 54-55, 1929.

***Saissetia hemisphaerica* (Hemispherical scale)\***

iBruner, Cuba C. 68, 23-25, 1929.

Dean, Amer. Florist, 71: 42, 13, 1929.

Hume, Cultivation of Citrus Fruits, 1926, 439, 1926.

iSeverin, So. Dak. Ent. R. 15, 32-33, '24.

iTrimble, Pa. Dept. Agr. B. 82, 7-8, '25.

Trimble, Pa. Dept. Agr. Gen. B. 480, 8, 1929.

Watson, Fla. B. 183, 321, 1926.

**†*Saissetia oleae* (Black Scale)\***

iBrock, Cal. Cit. 10, 349, 1925.

Delcurto, Halstead & Halstead, Texas Dept. Agr. B. 79, 86, 1925.

ibGranovsky, Wis. Acad. Sci. Tr. 24, 445-456, 1929.

bGray & Kirkpatrick, J. Econ. Ent. 22, 893-896, 1929.

Howard, Cal. Dept. Agr. Mo. B. 18, 620, 1929.

Hume, Cultivation of Citrus Fruits. 1926, 438-439.

Landon, Calif. Citrog. 12, 19, 1927.

Marshall, Wis. Acad. Sci. Tr. 24, 427-443, 1929.

Merrill, Cal. R. f. 1927-28, 33, 1929.

Severin, So. Dak. Ent. R. 15, 32, 1924.

iWatson, Fla. B. 183, 322, 1926.

Woglum, Calif. Citrog. 11, 26-27, 1925.

iWoglum, Cal. Fr. Grow. Exch. Bur. Pest Control (Pam.) 1925, 20p.

Woglum, Calif. Citrog. 11, 106-107, '261

Woglum, Cal. Citrog. 11, 344, 1926.

Woglum & LaFollette, Cal. Cit. 10, 349, 1925.

Woglum & LaFollette, J. Ec. Ent. 18, 726-729, 1925.

Woglum & LaFollette, Cal. Citrog. 9: 10, 376, 386, 387, 394, 1924.

Woglum, LaFollette & Landon, Cal. Fr. Grow. Exch. B. 5, 4, 10-11, 16-17, '28.

liWoodhams, Citrus Leaves, 8; 7, 4-5, '28.

***Saissetia oleae*—Parasites**

iCarpenter, Citrus Industry 4; 6, 15, '23.

iCompere, Cal. Univ. Ent. B. 3, 295-326, 1925.

iSmith & Compere, Cal. Univ. Pubs. Ent. 4, 51-61, 1926.

iSmith & Compere, Cal. U. Pub. Ent. 4, 231-334, 1928.

- Saissetia oleae* and cyanide  
Better Fruit 23: 8, 21, 1929.
- Saldula obscura*  
McDunnough, Can. Ent. 57, 257-259, '25.
- Salebria funerella*  
Dyar, Ins. Insc. Mens. 13, 12, 1925.
- Salebria laruata*  
niHeinrich, Proc. Ent. Soc. Wash. 30, 61, 1928.
- Salebria yuconella*  
nDyar, Ins. Insc. Mens. 13, 12, 1925.
- Salina* sp., wolcottii  
nibFolsom, P. U. S. N. M. 72; 6, 10-12, '27.
- Salmonella gallinarum*  
Goodner, R. I. B. 204, 1926, 29p.
- Salpingogaster punctifrons*  
nCurran, Ann. Ent. Soc. Amer. 22, 493-494, 1929.
- \*Salt-marsh caterpillar, *see* *Estigmene acraea*
- Salt marsh—Drainage  
Miller, N. J. Mosquito Exterm. Assoc. Proc. 13, 122, 1926.  
Smith, N. J. Mosquito Exterm. Assoc. Proc. 13, 111-114, 1926.
- Salt-marsh mosquitoes, *see also* *Aedes dorsalis* & *Aedes sollicitans*  
Griffitt, So. Med. J. 22, 374-377, 1929.  
Stuart & Glover, Am. J. Pub. H. 17, 704-707, Jl. 1927.  
Viosca, La. Dept. Conserv. B. 14, 3-11, 1926.
- Salt water insects  
— J. Ec. Ent. 19, 807, 1926.
- Salticella fasciata* on *Helix pisana*  
Bequaert, J. Parasitol 11, 203, 1925.
- †*Samia cecropia* (*Cecropia* moth)\*  
iBritton & Zappe, Conn. B. 292, 156-157, 1927.  
Cockerell, J. Ec. Ent. 22, 704, 1929.  
Cockerell, J. Ec. Ent. 22, 985, 1929.  
Cooley, Mont. B. 170, 28, 1925.  
Miller, Ent. News 38, 11-12, 1927.  
Peirson, Me. For. Serv. B. 5, 50, 1927.  
iPolacek, Md. Acad. Sci. Quar. B. 7; 3, 43, 1928.  
Rau & Rau, Tr. Acad. Sci. St. Louis 26, 90-120, 1929.  
Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 34, 1926.
- \*San Jose scale, *see* *Aspidiotus perniciosus*
- \*Sand Wireworm, *see* *Horistonotus uhleri*
- Sanninoidea exitiosa*, *see* *Aegeria exitiosa*
- Sanninoidea opalescens* (Western peach borer)  
Jardine, Oreg. Bien. Rept. 1924-1926, 100, 1926.
- Saperda bipunctata*  
nHopping, Can. Ent. 57, 208, 1925.
- Saperda calcarata* (Poplar borer)\*  
ideGryse, Can. Dept. Agr. Ent. Br. Pam. 47 n.s. rev. ed. 14-16, 1925.  
Hardy & Preece, Pan-Pac. Ent. 4; 2, 66-67, 1927.  
Hardy, B. C. Provin. Mus. R. f, 1927, 17.  
Peirson, Me. For. Serv. B. 5, 114-115, '27.  
iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 35-37, 1926.
- ‡*Saperda candida* (Round-headed apple tree borer)\*  
iBrittain, N. S. Dept. Nat. Resource B. 12, 40-41, 1927.  
iBritton & Zappe, Conn. B. 292, 131-132, 1927.  
iCrawford, N. C. Dept. Agr. B. Jan. 1926, 7-8.  
Peirson, Me. For. Serv. B. 5, 50, 1927.  
iPetch, Sci. Agr. 8, 560-566, 1928.  
Petch & Armstrong, Quebec Soc. Protec. Plts. R. 17, 76, 1925.
- Saperda concolor* (Poplar girdler)  
iPeirson, Me. For. Serv. B. 5, 115, 1927.
- Saperda discoidea*  
Peirson, Me. For. Serv. B. 5, 72, 1927.
- Saperda lateralis* (Red-legged saperda)  
Champlain, Kirk & Knull, Ent. News 36, 141, 1925.  
iPeirson, Me. For. Serv. B. 5, 72, 1927.
- Saperda moesta*  
Peirson, Me. For. Serv. B. 5, 124, 1927.
- Saperda obliqua* (Alder borer)  
Peirson, Me. For. Serv. B. 5, 24, 1927.
- Saperda tridentata* (Elm borer)\*  
iPeirson, Me. For. Serv. B. 5, 58, 1927.  
iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 37, 1926.
- Saperda vestita* (Linden borer)\*  
iBritton & Zappe, Conn. B. 292, 148, '27.  
Peirson, Me. For. Serv. B. 5, 34-35, '27.  
Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 37, 1926.

- Saphonecрус* gen. 109, *areolatus* 112, *brevis* 109-111, *serratus* 111-112, spp.—Key 109.  
Weld, P.U.S.N.M. 68: 10, 1926.
- Saprinus carri*  
nHatch, Can. Ent. 58, 272-273, 1926.
- Saprinus cynomyssi*  
nBrown, Can. Ent. 60, 89, 1928.
- Saprinus eriensis* 82, *jaquesi* 83, *michiganensis* 83, *ohioensis* 82, *ontarioensis* 82, *propensoides* 83.  
nHatch, Can. Ent. 61, 1929.
- Saprolegnia ferox*—X-Ray  
Svenson, Science 69, 361, 1929.
- Sapromyza inversa* 31-32, *maquilingensis* 31, *omei* 32-33  
nMalloch, P. U. S. N. M. 74: 6, 1929.
- Sapromyza rotundicornis*  
Malloch, Proc. Ent. Soc. Wash. 27, 152, 1925.
- Sapromyza schwarzi*  
nMalloch, P. U. S. N. M. 73: 23, 17, 1928.
- Sapromyzidae*  
nMalloch, P. U. S. N. M. 73: 23, 1928, 18p.  
Malloch, P. U. S. N. M. 74: 6, 1-95, '29.
- Sapyga interrupta*, *russellensis*  
nRoberts, Psyche, 36, 359-361, 1929.
- Sarantus australensis*  
nGoding, J. N. Y. Ent. Soc. 34, 208, 1926.
- Sarcionus maculatus*  
niVanDuzee, P. U. S. N. M. 74: 10, 57-58, 1928.
- Sarcophaga adamsii* 345-346, *aureopyga* 339-340  
nHall, Ann. Ent. Soc. Amer. 21, 1928.
- Sarcophaga canadensis*  
niHall, Ent. News, 40, 322-323, 1929.
- Sarcophaga caridei*  
Aldrich, J. Ec. Ent. 20, 590, 1927.
- Sarcophaga carnaria*  
Chandler, Animal Parasites ed. 3, 522, 1925.
- Sarcophaga diatraeae*  
Earle, Facts about Sugar 22, 969, 1927.
- Sarcophaga duplicata*  
nHall, Ann. Ent. Soc. Amer. 21, 338, '28.
- Sarcophaga haemorrhoidalis*  
Green, P. U. S. N. M. 66: 29, 1, 1925.
- Sarcophaga helcis*  
Beckwith & Driggers, N. J. R. 1926-27, 139, 1928.  
ibPlank, Ann. Ent. Soc. Amer. 22, 637, '29.
- Sarcophaga latisterna*  
iHall, Ann. Ent. Soc. Amer. 22, 247-250, 1929.
- Sarcophaga melanura*  
Bequaert, J. Parasitol. 11, 203, 1925.
- Sarcophaga minuta*  
nHall, Ann. Ent. Soc. Amer. 21, 335, '28.
- Sarcophaga minutissima*  
niHall, Ent. News, 40, 320-321, 1929.
- Sarcophaga morosa*  
niAldrich, P. U. S. N. M. 66: 18, 26-27, 1925.
- Sarcophaga noumes*  
inCurran, Amer. Mus. Novitates, 375, 11, 1929.
- Sarcophaga obscuripes*  
nHall, Ann. Ent. Soc. Amer. 21, 335-336, 1928.
- Sarcophaga ohioensis*  
niHall, Ins. Insc. Mens. 14, 176-178, 1927.
- Sarcophaga ollantaytambensis* 341-342, *orbitalis* 337-338  
nHall, Ann. Ent. Soc. Amer. 21, 1928.
- Sarcophaga pallinervis*  
bniHall, Ann. Ent. Soc. Amer. 21, 331-352, 1928.  
Hall, Kan. Ent. Soc. J. 2, 71, 1929.
- Sarcophaga pedata*  
Plank, Ann. Ent. Soc. Amer. 22, 638, 1929.
- Sarcophaga placida*  
niAldrich, P. U. S. N. M. 66: 18, 24-26, 1925.
- Sarcophaga reinhardii*  
nHall, Ann. Ent. Soc. Amer. 21, 346-347, 1928.
- Sarcophaga saracena?*  
Patterson, Iowa Acad. Sci. Proc. 32, 403-406, 1925.
- Sarcophaga sarraceniae*  
Beyer, La. St. Bd. Health Quart. Bul. 16: 1, 113, 1925.  
Stevenson, Ont. Dept. Agr. B. 337, 29, 1928.
- Sarcophaga spp.*  
iHall, Ent. News, 40, 319-324, 1929.  
Tao, Amer. J. Hyg. 7, 755-756, 1927.
- Sarcophaga sternodontis*  
Aldrich, J. Ec. Ent. 20, 590-591, 1927.  
Earle, Facts about Sugar 22, 969, 1927.  
Plank, Internat. Soc. Sugar Cane Tech. Proc. 2d. Confer. 69, 1927.
- ibPlank, Ann. Ent. Soc. Amer. 22, 636, '29.  
VanZwaluwenburg, J. Ec. Ent. 19, 667, 1926.

- Sarcophaga subaenescens**  
niAldrich, P. U. S. N. M. 66: 18, 27-28, 1925.
- Sarcophaga surrubea**  
bPlank, Ann. Ent. Soc. Amer. 22, 637-638, 1929.
- Sarcophagidae**  
iGreene, P. U. S. N. M. 66: 29, 1925, 26p.
- Sarcophaginae**  
bHall, Kans. Ent. Soc. J. 2, 83-90, 1929.  
iHallock, Ann. Ent. Soc. Amer. 22, 246-250, 1929.
- Sarcopsylla gallinacea (Hen flea)**  
Kaupp, O. K. Poult. J. 18, 445, 1929.
- Sarcoptes canis**  
Miller, Ohio B. 386, 156, 1925.
- Sarcoptes equi**  
Miller, Ohio B. 386, 156, 1925.
- Sarcoptes scabiei (Itch mite)\***  
iChandler, Animal parasites ed. 3, 342, '25.  
Felt, N. Y. St. Mus. B. 274, 51-52, 1928.  
Graham, New Breeder's Gaz. 94: 7, 22, 31, 1929.  
Kaufman, U. S. Naval Med. B. 26, 559-643, 1928.  
Miller, Ohio B. 386, 156, 1925.  
Price, Ohio Vet. Alumni Q. 17; 1, 30, '29.  
iShillinger, Vet. Med. 22, 404, 1927.  
Tobias, Hygeia 3, 9, 524, 1925.  
U. S. D. A., B. A. I. Help eradicate scabies (poster) 1928.  
Whipple, J. Am. Vet. Med. Assoc. 69, 153, 1926.  
iVet. Med. 24, i.e. 25, 24, 1928.
- Sarcoptes scabiei canis**  
iHall, U. S. D. A. Dept. C. 338, 1925, 4-6.
- Sarcoptes scabiei cuniculi**  
iSchwartz and Shook, U. S. F. B. 1568, 5-8, 1928.
- Sarcoptes scabiei equi (Horse mange mite)**  
Imes, U. S. F. B. 1493, 6, 1926.
- Sarcoptes scabiei ovis (Head mange mite)**  
Stevenson, Ont. Dept. Agr. B. 337, 27, '28.  
iWestmorland, Ky. Dept. Agr. & Labor Statis. Bien. R. 28, 108-109, 1929.
- Sarcoptes scabiei suis (Hog mange mite)**  
Hall, Kans. Ent. Soc. J. 2; 80-81, 1929.  
Miller, Ohio B. 386, 157, 1925.
- Sarota estrada**  
nSchaus, Proc. Ent. Soc. Wash. 30, 48, '28.
- Saskatoon sawfly, see Hoplocampa halycon**
- Satin moth, see Stilpnotia salicis**
- Satronia, n. gen., tantilla**  
niHeinrich, U. S. N. M. B. 132, 17-18, '26.
- Satsuma disinfection and cleaning**  
Hinds and Buck, Ala. R. 35, 15, 1924.
- Saturniidae—Rhythmic periodicity**  
Rau & Rau, Tr. Acad. Sci. St. Louis 26, 146-221, 1929.
- Saturnoidea—America**  
iBouvier, Internat. Cong. Ent. 4, Tr. 2, 909-916, 1929.
- Satyrium fuliginosa**  
niGunder, Can. Ent. 59, 283, 1927.
- Satyrodes canthus**  
Chermok, Bklyn. Ent. Soc. B. 22, 119, '27.
- Sawflies**  
Webster, Dakota Farmer 45, 788, 1925.
- Sawtoothed mayfly, see Ephemerella hecuba**
- \*Saw-toothed grain beetle, see Oryzaephilus surinamensis**
- Saxinis inaequalis, microstigma**  
nFall, Cal. Acad. Sci. Proc. Ser. 4, 16, 384-385, 1927.
- Saxinis saucia**  
iSpruyt, Pan-Pacific Ent. 1, 176-178, '25.
- Saxinis vestiaria**  
nFall, Cal. Acad. Sci. Proc. ser. 4, 16, 386, 1927.
- Say, Thomas, Mexico**  
Barber, Ent. News 39, 15-20, 1928.  
bWeiss & Zeigler, Jour. N. Y. Ent. Soc. 35, 231-239, 1927.
- Say's blister beetle, see Pomphopoea sayi.**
- Sayiana**  
nBall, Can. Ent. 60, 197, 1928.
- Sayomyia hudsoni, rotundifolia**  
Matheson, Can. Ent. 57, 159, 1925.
- Scaeva occidentalis**  
nShannon, P. U. S. N. M. 70; 9, 29, 1927.
- Scaeva pyrastris**  
ibFluke, Wis. Res. B. 93, 30, 1929.
- Scale insects†**  
A: R. G., Fla. Grower 31: 24, 7, 1925.  
Brannon, N. C. R. 50, 111, 1927.  
Bourne, Mass. B. 247, 317, 1929.  
Brittain, N. S. Dept. Nat. Resource B. 12, 129-130, 1927.  
Brock, Citrus Leaves 7: 9, 61-63, 1927.  
Chandler & Porter, J. Ec. Ent. 18, 553, 1925.  
Christie, Ind. R. 41, 43-44, 1928.

**Scale Insects† Cont'd**

- Delcurto, Halstead & Halstead, Tex.  
Dept. Agr. B. 79, 88, 1925.
- iGibson & Twinn, Can. Dept. Agr. B.  
112, 52-59, 1929.
- Gilbertson, Ind. St. Hort. Soc. R. 21,  
103-105, 1924.
- Gowdey, Jamaica Sci. & Agr. Dept.  
Ann. R. f. 1927, 20, 1928.
- Gray, Citrus Leaves 7: 9, 64, 1927.
- iGray & Kirkpatrick, J. Ec. Ent. 22, 878-  
892, 1929.
- Harned, Miss. R. 40, 28, 1928.
- Lieber, Ind. Dept. Conserv. R. 9, 35-41,  
1927.
- Merrill, Fla. St. Plant Bd. Quar. B. 7: 4,  
177-298, 1923.
- Morrison, Sci. Monthly 22, 243-246, '26.
- Morrison, Ann. Ent. Soc. Amer. 22, 33-  
60, 1929.
- iTrimble, Pa. Dept. Agr. B. 8; 2, '25, 21p.
- Trimble, Ent. News 39, 42-47, 1928.
- iTrimble, Pa. Dept. Agr. B. 480, 13-17, '29.
- Weigel, Amer. Hort. Soc. B. 3, 9, 1926.
- Will, Nat. Nurserymen. 36; 24, 16, 1929.
- Woglum, Cal. Assoc. Nurserymen.  
Trans & Proc. 18, 44-47, 1928.
- Yothers, Citrus Indus. 7; 7, 23, 1926.
- Scale insects—Parasites**
- DuPuy, Nature Mag. 10, 249-252, 1927.
- Scale insects—Resistant**
- Quayle, Internat. Cong. Ent. 4, Tr. 2,  
159-160, 1929.
- Scalenarthus concarus** 207, *globosus* 209,  
*inflatus* 210, *ventricosus* 208.
- Fletcher, Ann. Ent. Soc. Amer. 21, 1928.
- \*Scaly-leg mite, see** *Cnemidocoptes mutans*
- Scaphoideus fasciatus**
- Osborn, Porto Rico Dept. Agr. J. 13, 94-  
95, 1929.
- Scaphoideus mirus**
- nVan Duzee, Proc. Cal. Acad. Sci. Ser. 4,  
14, 419-420, 1925.
- Scaphoideus nugax**
- nVan Duzee, Proc. Cal. Acad. Sci. ser. 4,  
14, 419, 1925.
- Scapteriscus abbreviatus** (Short-winged  
mole cricket)
- Brooks et al., Fla. B. 204, 519, 1929.
- Scapteriscus didactylus**
- bEarle, Facts About Sugar 22, 1011, 1927.

**Scapteriscus vicinus (Changa)\***

- iThomas, U. S. F. B. 1561, 1928, 8p.
- iThomas, U. S. Golf Assoc. Green Sec.  
Bul. 6, 197-200, 1926.
- Howard, U. S. D. A. Ent. R. f. 1926, 17.
- Scaptomyza graminum**—*Celery heart rot*
- Leach, Phytopathology 17, 664, 1927.
- Scaptomyza spp.**
- iNeedham, Frost & Tothill, Leaf-mining  
insects, 1928, 265-268.
- Scarabaeidae**
- biBox, Porto Rico Dept. Agr. J. 9, 291-  
355, 1925.
- Brown, Proc. Okla. Acad. Sci. 7, 24-28,  
1928.
- Hayes, Ent. News 38, 216-218, 1927.
- iJarvis, Internat. Cong. Ent. 4, Tr. 2, 25-  
33, 1929.
- iMcColloch et al, Ecology 9, 34-40, 1928.
- Scarabaeidae larvae**
- Hayes & McColloch, J. Ec. Ent. 21, 249-  
260, 1928.
- Scarabaeidae—Dispersal by flood waters**
- McColloch, Kans. Ent. Soc. J. 1: 2, 19-  
20, 1928.
- Scarabaeidae—Florida**
- Blatchley, Fla. Ent. 11, 44-46, 1927.
- Blatchley, Fla. Ent. 11, 55-62, 1928.
- Blatchley, Fla. Ent. 12, 9-14, 21-30, 44-  
46, 63-65, 1928.
- Blatchley, Fla. Ent. 13, 33-37, 1929.
- Scarabaeidae—Haiti**
- ibWolcott, Proc. Ent. Soc. Wash. 30, 21-  
29, 1928.
- Scarabaeus carnifex**
- Barber, J. Wash. Acad. Sci. 18, 383, '28,
- Scarabaeus hercules**—First insect known
- Rohwer, Ent. News 38, 300, 1927.
- Scelio calopteni**—*Manitoba*
- Criddle, Ont. Ent. Soc. R. 55, 14, 1925.
- Sceliphron gen.—American**
- iPorter, P. U. S. N. M. 70, Art. 1, '26, 22p.
- Sceliphron caementarium** (Yellow-legged  
mud dauber)
- Rau, St. Louis Acad. Sci. Tr. 25, 188, 1927.
- Rau, St. Louis Acad. Sci. Tr. 25, 443-  
466, 1928.
- Williams, J. Pan-Pac. Res. Inst. 4: 3, 4, '29.
- Sceliphron spp.—key**
- Porter, P. U. S. N. M. 70, Art. 1, 5, '26.
- Scellus crinipes** 177-180, *varipennis* 180-  
183, *virago* 176-177.

- iVan Duzee, Proc. Cal. Acad. Sci. ser. 4, 14; 10, 1925.
- Scelolyperus rosenbergi, tenuimarginata**  
nBowditch, Psyche 32, 264, 1925.
- Schausiades almothos**  
nSchaus, P. U. S. N. M. 73; 19, 65-66, '28.
- Schedius kuvanae**  
iBurgess & Crossman, U. S. Tech. B. 86, 31-38, 1929.  
iCrossman, J. Agr. Res. 30, 645-658, '25.  
bMuesebeck & Dohanian, U. S. D. A. B. 1487, 25, 1927.
- Schistocerca aleutacea (Striped rusty grasshopper)**  
Hume, Cult. of Cit. Frts. 1926, 426.  
Watson, Fla. B. 183, 407, 1926.
- Schistocerca americana (American grass hopper)\***  
Hebard, Trans. Amer. Ent. Soc. 51, 268, 1925.
- Schistocerca camerata**  
Hebard, Trans. Amer. Ent. Soc. 51, 284-285, 1925.
- Schistocerca ceratiola**  
niHubbell & Walker, Mich. Univ. Occ. Papers 197, 2-10, 1927.
- Schistocerca obscura**  
Gable, J. Ec. Ent. 19, 861-863, 1926.
- Schistocerca pallens**  
Hebard, Trans. Amer. Ent. Soc. 51, 285, 1925.
- Schistocerca paranensis**  
Aldrich, J. Ec. Ent. 20, 588-593, 1927.  
Dampf, Cal. Dept. Agr. Sp. Pub. 85, 65-66, 1928.
- Schistocerca serralis**  
Hume, Cult. of Cit. Frts. 1926, 427.
- Schistocerca spp.**  
iHubbell & Walker, Mich. Univ. Occ. Papers 197, 1928, 10p.
- Schistocerca vaga**  
Morse, Psyche, 33, 53, 1926.
- Schistocercophaga—n. gen.**  
nTownsend, Ent. News 39, 152, 1928.
- Schizactia n. gen.**  
Townsend, Ins. Insc. Mens. 14, 31, '26.
- Schizaspidia manipurensis**  
nibClausen, Proc. Ent. Soc. Wash. 30, 80-86, 1928.
- Schizocercophaga leiby**  
iChapman & Gould, Va. B. 68, 780-782, 1929.
- Schizogenius pygmaeus**  
nVan Dyke, Pan-Pac. Ent. 1, 125, 1925.
- Schizoneura, see Eriosoma**
- Schizoptera apicipunctata 23, bipartita 15-16, bispina 24, caudata 21, clodius 16, commodus 17, cubensis 17, decius 17, drusus 17, elmis 19, hirta 20-21, licinius 23, mexicana 21, nigrita 23, paraguayana 21-22, pilosa 22, plana 15, repetita 16, reticulata 20, reuteri 18-19, scymnus 20, similis 18, spp. Key 12-15, sulcata 24, tenuispina 24-25, uhleri 19, unica 18, vitellius 24**  
nMcAtee & Malloch, P. U. S. N. M. 67, art. 13, 1926.
- Schizotetranychus fluvialis**  
niMcGregor, Proc. Ent. Soc. Wash. 30, 13-14, 1928.
- Schizobracon trisinuatus**  
nBrues, Proc. Amer. Acad. Arts & Sci. 61, 235-236, 1926.
- Schizura concinna (Red-humped caterpillar)\***  
iBrittain, N. S. Dept. Nat. Resource B. 12, 25, 1927.  
iBritton & Zappe, Conn. B. 292, 126-127, 1927.
- Schizura salvador**  
nSchaus, P. U. S. N. M. 73; 19, 19, 1928.
- Schizura unicornis (Unicorn caterpillar)\***  
Barnes, Pan-Pac. Ent. 5, 13, 1928.
- Schongastia californica**  
niEwing, Amer. J. Trop. Med. 5, 262, '25.
- Schongastia peromysci**  
nEwing, Ent. News, 40, 296-297, 1929.
- Schongastia sciuricola**  
niEwing, Amer. J. Trop. Med. 5, 261-262, 1925.
- Schwartz letters**  
Sherman, J. N. Y. Ent. Soc. 37, 181-392, 1929.
- Sciara caesar**  
Johannsen, Can. Ent. 61, 223-224, 1929.
- Sciara coprophila**  
Metz, Nat. Acad. Sci. Proc. 12, 690-692, 1926.  
iMetz, Science 63, 190-191, 1926.
- Sciara luravi**  
nJohannsen, Wash. Ent. Soc. Proc. 31, 88, 1929.
- Sciara similans**  
nJohannsen, Ent. News 36, 266-267, '25.



**Sciara spp.—Chromosome behavior**Metz, *Anatom. Rec.* 31, 346, 1925.Metz, *Amer. Nat.* 60, 42-56, 1926.Metz, *Proc. Acad. Nat. Sci.* 14, 140-141, 1928.bMetz, *Amer. Nat.* 63, 214-228, 1929.bMetz, *Amer. Nat.* 63, 487-496, 1929.Metz & Ullian, *Nat. Acad. Sci. Proc.* 15, 82-85, 1929.Moses & Metz, *Nat. Acad. Sci. Proc.* 14, 928-930, 1928.**Sciara transpacific**niCurran, *Can. Ent.* 57, 292-293, 1925.**Science, Awkward consistency**Eldridge, *Sci. Mo.* 28, 362-367, 1929.**Scione gen. 9, aurulans 9-10, maculipennis 9**Hine, *Mich. Univ. Mus. Zool. Occas. Papers* 162, 1925.**Sciophila nitida**niVan Duzee, *Cal. Acad. Sci. Proc.* 17; 2, 37-38, 1928.**Scipopus cartaboensis 270-271, frit 270, melaneuris 271.**nCresson, *Trans. Amer. Ent. Soc.* 52, '26.**Scirpophaga auriflua (White borer)**Hazelhoff, *Facts about Sugar*, 24, 706, 1929.**Scirtothrips aceri**niMoulton, *Trans. Amer. Ent. Soc.* 52, 122-123, 1926.**Scirtothrips citri (Orange thrips)\***iBonquet, *Calif. Cult.* 68, 650, 1927.Delcurto, et al, *Tex. Dept. Agr. B.* 79, 92, 1925.Fernald, *Applied Ent.ed.* 2, 157-158, '26.McGregor, *Cal. Cit.* 10, 264, May 1925.McGregor, *Cal. Cit.* 14, 2, 1928.McGregor, *Cal. Fr. Grow. Exch. B.* 5, 29-30, 1928.McGregor, *Cal. Fr. Grow. Exch. B.* 6, 26-27, 1929.iMcGregor, *Cit. Leaves* 8; 10, 3-5, 1928.McGregor, *Cal. Cit.* 15; 1, 37, 1929.Stevens, *Citrus Industry* 3; 3, 18, 1922.Woglum et al, *Cal. Frt. Grow. B.* 6, 12, 20, 26-28, 1929.Woodhams, *Cit. Leaves*, 8; 4, 1, 23, 24, '28.iWoodhams, *Cit. Leaves* 8; 5, 1-2, 1928.**Scirus quadripilis**Miller, *Ohio B.* 386, 95-96, 1925.**Scleroderma immigrans—Thelytoky and arrhenotoky**Bridwell, *Psyche* 36, 119-120, 1929.Keller, *Psyche*, 36, 41-44, 1929.Keller, *Psyche* 36, 121-122, 1929.**Scobicia declivis (California lead cable borer)**Snyder, *Nat. Mag.* 8, 277, 1926.**Scolia calopteni**Shotwell, *J. Ec. Ent.* 22, 583, 1929.**Scolia luzonica**Rohwer, *Proc. Ent. Soc. Wash.* 30, 38, 1928.**Scoliidae**Box, *P. R. Dept. Agr. J.* 9, 323-334, '25.**Scologaster—n. gen., fuscipennis**Aldrich, *Ins. Insc. Mens.* 14, 52-54, '26.**Scoloposcelia basilius 44-45, mississippiensis 43-44, occidentalis 45**nDrake & Harris, *Proc. Biol. Soc. Wash.* 39, 1926.**Scolops austrinus 437, flavidus 441, immanis 447, luridus 440-441**niBreakey, *Kans. Univ. Sci. B.* 18, 1928.**Scolops osborni**Beamer, *Kan. Ent. Soc. J.* 2, 70, 1929.**Scolops pruinosus 435-436, snowi 433-434, spp. 417-455, stonei 432-433**niBreakey, *Kans. Univ. Sci. B.* 18, 1928.**Scolytidae**Chamberlin, *Pan-Pac. Ent.* 2, 23-35, '25.**Scolytus intricatus**iPena, *La Hacienda*, 23, 155, 1928.**Scolytus quadrispinosus (Hickory bark beetle)\***iMiddleton, *Garden Club B.* 6 (ser. 4) 23, 1929.Peirson, *Me. For. Serv. B.* 5, 71, 1927.iSt. George, *J. Ec. Ent.* 22, 573-580, '29.**Scolytus ratzeburgi**iPena, *La Hacienda*, 23, 155, 1928.**Scolytus rugulosus (Shot-hole borer)\***Brannon, *N. C. Ext. C.* 153, 6, 1925.iBritton & Zappe, *Conn. B.* 292, 133-134, 1927.Brunson, *South. Cult.* 87; 11, 18, 1929.Fernald, *Applied Ent. ed.* 2, 148-149, 1926.Flint, *Amer. Frt. Gr.* 46; 9, 21, 1926.Frank, *Wash. Bi-Mo. B.* 12; 5, 112, '25.Gilliat, *Ont. Ent. Soc. R.* 59, 12, 1929.Herrick, *Rur. N. Y.* 84, 740, 1925.

- iJones, Ont. Dept. Agr. B. 342, 19, 1929.  
 Pepper, S. C. Clemson Col. Weekly News Notes, 15; 3, 1, 1926.  
 Pettit, Mich. Ext. B. 74, 1929, 2p.  
 iSnapp, USFB 1557, 27-28, 1928.  
 W. J. A., Amer. Fr. Gr. Mag. 46; 4, 17, 1926.
- Scoparia albertalis*  
 nDyar, P. U. S. N. M. 74; 24, 2, 1929.
- Scoparia cervicalis*  
 nMcDunnough, Can. Ent. 59, 267-268, '27.
- Scoparia crassiuscula* 8, *denigata* 1, *echo* 3, *excursalis* 8, *imparilis* 8, *inexoptata* 7, *leucophthalma* 3, *molliculella* 6, *multifacies* 6-7, *phycitinalis* 4-5, *subtersa* 5, *ulmaya* 9, *vinasalis* 8, *ycarda* 7.  
 nDyar, P. U. S. N. M. 74; 24, 1929.
- Scotophilella* spp.—North Amer.  
 biSpuler, J. N. Y. Ent. Soc. 33, 147-169, 1925.
- Scordylia guatica*  
 nSchaus, Proc. Ent. Soc. Wash. 29, 111, 1927.
- Scorpions*  
 ibEwing, P. U. S. N. M. 73; 9, 1928, 24p.
- Scorpioteleia vera*  
 nFouts, Proc. Ent. Soc. Wash. 29, 173, '27.
- Scotch pine lecanium*, see *Toumeyella numismaticum*
- Scotiptera robusta*  
 nCurran, Trans. Amer. Ent. Soc. 51, 262-264, 1925.
- Scotogramma fieldi*  
 nBarnes & Benjamin, Can. Ent. 58, 307-308, 1926.
- Scotophilella* spp.—list  
 Spuler, J. N. Y. Ent. Soc. 33, 70-76, '25.
- \*Screw worm, see *Chrysomya macellaria*
- \*Scurfy scale, see *Chionaspis furfura*
- \*Scurfy worm (Screw worm), see *Cochliomyia macellaria*
- Scutelleroidea*—N. Mex.  
 Barber, Ent. News 37, 43, 1926.
- Scutelleroidea*—Barbados-Antigua  
 Stoner, Univ. Iowa Stud. Nat. Hist. 10: 1, 3-17, 1922.
- Scutellista cyanea*  
 ibSmith & Compere, Cal. Univ. Pub. Ent. 4, 322-332, 1928.
- Scutellista* spp.  
 iSmith, Cal. Cit. 11, 414, 1926.
- Scutigera forceps* (House centipede)\*  
 iDavis, Ind. C. 150, 13-14, 1928.  
 Ewing, Am. J. Pharm. 100, 539, 1928.  
 Ewing, Amer. J. Trop. Med. 8, 57-58, '28.  
 Ewing, U. S. Naval Med. B. 26, 701, '28.  
 iGibson & Twinn, Can. Dept. Agr. B. 112, 72, 1929.  
 Guyton, Pa. Dept. Agr. Gen. B. 432, 18, 1927.
- Scutigerella immaculata* (Greenhouse centipede)  
 Downes, Proc. Ent. Soc. B. C. 25, 18, '28.  
 Essig, Cal. B. 411, 18-19, 1926.  
 Filinger, J. Ec. Ent. 21, 357-360, 1928.  
 Filinger, Ohio B. 431, 74-75, 1929.  
 iG. H. G. & J. F. I., Pineapple News 2, 93-94, 1928.  
 Herms, J. Ec. Ent. 19, 266, 1926.  
 Herrick, J. Ec. Ent. 20, 738-740, 1927.  
 Jardine, Oreg. Bien. Rept. 1924-1926, 104, 1926.  
 Jardine, Oreg. R. f, 1926-28, 108-109, '28.  
 Lieber, Ind. Dept. Conserv. R. 7, 53, '25.  
 Merrill, Cal. R. 1924-25, 51-53, 1926.  
 Rands, Sugar B. 4; 18, 3, 1926.  
 iRiley, Ind. B. 331, 1-8, 1929.  
 Thompson, J. Ec. Ent. 18, 716, 1925.  
 Williams, Ohio B. 417, 49, 1928.
- Scutigerella millipedes*  
 Thomas, Pa. B. 230, 40, 1928.
- Scydmaenus adjutor*  
 nFall, Pan-Pac. Ent. 2, 144-145, 1926.
- Scymnus binaevatus*  
 Smith, Cal. Cit. 11, 430, 1926.
- Scymnus bineratus*  
 Thompson, Fla. Ent. 10, 40-46, 1926.
- Scymnus collaris*  
 ibMiller, Fla. B. 203, 457, 1929.  
 Thompson, Fla. Ent. 11, 50, 1928.
- Scymnus creperus*  
 iMiller, Fla. B. 203, 457-458, 1929.
- Scymnus guadalupensis*  
 nBlaisdell, Proc. Cal. Acad. Sci. ser. 4, 14, 14, 327, 1925.
- Scymnus nebulosus*  
 biSteinweden, Pan-Pac. Ent. 6, 29, 1929.
- Scymnus pelli*  
 nBlatchley, Ent. News 38, 142, 1927.
- Scymnus* sp.  
 Smith, Cit. Leaves 5; 8, 3, 1925.  
 ibWilson, Psyche 34, 167-170, 1927.

- Scymnus terminatus**  
ibMiller, Fla. B. 203, 457, 1929.  
Thompson, Fla. Ent. 11, 50, 1928.  
iWatson, Fla. B. 183, 365-366, 1926.
- Scythris pacifica**  
niMcDunnough, Can. Ent. 59, 275, 1927.
- Scythris scintillifera**  
nBraun, Can. Ent. 59, 59, 1927.
- Scythropus sp.**  
iKeen, Cal. Dept. Nat. Res. B. 7, 71-72, 1928.
- Scytodepsa magna**  
nGoding, Trans. Amer. Ent. Soc. 52, 104, 1926.
- Scytodepsa tricarinata**  
niFunkhouser, J. N. Y. Ent. Soc. 35, 163-164, 1927.
- Seaside earwig, see Anisolabis maritima**
- Secodella ovativentris**  
nGirault, Ins. Insc. Mens. 14, 61, 1926.
- Secodella subopaca**  
nGahan, J. Agr. Res. 34, 548, 1927.
- Secopennis**—n. subgen.  
niDeLong & Slesman, Ann. Ent. Soc. Amer. 22, 85, 1929.
- Seed corn beetle, see Agonoderus pallipes**
- \*Seed corn maggot, see Hylemyia cilicrura**
- Seed disinfection**  
McCubbin, et al., Penn. Agr. B. 9; 2, 17-27, 1926.
- Seed insects**  
Doyer, Int. R. Sci. & Prac. Agr. 7, 268-276, 1926.  
Hale, Fla. Grow. 35; 18, 29, 1927.
- Seed springtail, see Onychiurus pseudarmatus**
- Seiulus hirsutus**  
Miller, Ohio B. 386, 137, 1925.
- Seius pomi**  
Miller, Ohio B. 386, 137, 1925.
- Selenia abramaria** 110, **blaziaria** 109-110, **mariaria** 109  
nSchaus, Proc. Ent. Soc. Wash. 29, 1927.
- Selenomyia facialis** 23-24, **plena** 23, **virens** 22-23.  
nAldrich, P. U. S. N. M. 74; 1, 1928.
- Selman**—n. gen., **angustus**  
niParker, P. U. S. N. M. 75; 5, 20-21, '29.
- Semanotus ligneus**  
Champlain, Kirk & Knull, Ent. News 36, 108, 1925.
- Hardy & Preece, Pan-Pac. Ent. 3; 1, 37-38, 1926.  
nVanDyke, Pan-Pac. Ent. 3, 103-104, '27.
- Semiothisa bisignata**  
Peirson, Me. For. Serv. B. 5, 65, 1927.
- Semitropical armyworm (Southern army worm),\* see Xylomyges eridania**
- Semium subglaber**  
nKnight, Bklyn. Ent. Soc. B. 22, 26-27, '27.
- Semyra erna, lucilla**  
nDyar, J. Wash. Acad. Sci. 17, 549, '27.
- Senotainia gen., flavicornis**  
Allen, P. U. S. N. M. 68, art. 9, 16-24, 22-23, 1926.
- Senotainia litoralis**  
Allen, P. U. S. N. M. 68, Art. 9, 29-30, '26.  
Allen, Boston Soc. Nat. Hist. Occ. Papers 5, 89, 1924.
- Senotainia nana** 30-31, **rubriventris** 24-26, **rufiventris** 38-39, **setulicosta** 31-32, **spp.**—Key to N. Amer. 20-21, **trilineata** 32-38.  
Allen, P. U. S. N. M. 68, art. 9, 1926.
- Senotainia vigilans**  
Allen, P. U. S. N. M. 68, art. 9, 26-29, '26.  
Allen, Boston Soc. Nat. Hist. Occ. Papers 5, 90, 1924.
- Senses of insects, see Insects—Senses**
- Sephularia bombi**  
Frison, Ann. Ent. Soc. Amer. 19, 223, '25.
- Sepsis mitis**  
niCurran, Amer. Mus. Nov. 275, 1-2, '27.
- Septis ona**  
Barnes & Benjamin, Pan-Pac. Ent. 2, 108-109, 1926.
- Sequoia pitch moth, see Vespamina sequoiae**
- Serica fimbriata**  
Riphey, Cal. Avocado Assoc. R. f. 1924-25, 23.
- Serica similis**  
iHallock, J. Ec. Ent. 22, 299, 1929.
- Serica sp.**  
Hayes, Ann. Ent. Soc. Amer. 21, 288, '28.
- Sericomyia calcarata**  
nCurran, Kans. Univ. Sci. B. 15, 182-183, 1925.
- Sericomyia completa**  
nCurran, Ann. Ent. Soc. Amer. 22, 502-503, 1929.
- Sericomyrmex amabilis**  
ibWheeler, Biol. B. 49, 150-168, 1925.

- Sericopelma communis*  
Baerg, Ann. Ent. Soc. Amer. 18, 475, '25.  
Gray, Ark. B. 203, 35-37, 1926.
- Sericophanes floridanus*  
nKnight, Ent. News 38, 305-306, 1927.
- Sericothrips annulipes*  
niHood, Ent. Amer. 7, 211-213, 1927.
- Sericothrips apicalis* 137-138, *beachae* 133-135, *interruptus* 136-137.  
niHood, J. N. Y. Ent. Soc. 35, 1927.
- Sericothrips inversus*  
nWilder, Psyche, 34, 232, 1927.
- Sericothrips langei*  
nMoulton, Bklyn. Ent. Soc. B. 24, 230-231, 1929.
- Sericothrips pedicellatus*  
niHood, J. N. Y. Ent. Soc. 35, 131-132, '27.
- Sericothrips portoricensis*  
nMorgan, Fla. Ent. 9; 1, 3-4, 1925.
- Sericothrips setosus, spiritus*  
nHood, J. N. Y. Ent. Soc. 35, 135-136, 138-139, 1927.
- Sericothrips trincinctus, williamsi*  
nWilder, Psyche, 34, 230-232, 1927.
- Sericothrombium scabrum*  
Miller, Ohio B. 386, 117-118, 1925.
- Sericulture**  
iDun's Int. R. 47, 40-44, 1926.  
Kessel, Cal. Countrym. 12, 11, 1925.  
MacDill, Sci. News L. 16; 441, 173-175, 1929.  
Woodward, N. J. Agr. 9, 14-16, 1927.
- Sericulture—Jamaica**  
Hofman-Bang, J. Jam. Agr. Soc. 29, 98-101, 392-394, 1925; 30; 4, 123-125, 464-467, 1926; 31, 10-12, 1927.  
— J. Jam. Agr. Soc. 29, 236, 1925.  
— J. Jam. Agr. Soc. 29, 390-392, 1925.  
— Int. Rev. Agr. 20; 3, 227-228, '29.
- \*Serpentine leaf miner, see Agromyza pusilla**
- Serropalpus barbatus* (Blazed tree borer)  
Peirson, Me. For. Serv. B. 5, 121, 1927.
- Sertorius acuticornis*  
nGoding, J. N. Y. Ent. Soc. 34, 244-245, 1926.
- Sesia, see Aegeria*
- Sesioplex canadensis*  
nCushman, P.U.S.N.M. 76; 25, 8-9, '29.
- Sesioplex heliaeformis, relativus*  
nViereck, Can. Ent. 57, 298, 1925.
- Sesioplex validus*  
Baldus, Ohio J. Sci. 29, 235, 1929.
- Setiostoma xanthobasis*  
iBusck, Proc. Ent. Soc. Wash. 27, 48, '25.
- Setonella*—n. gen., buscki  
nMcDunnough, Can. Ent. 59, 276, 1927.
- Sewage disposal—Fauna**  
ibLackey, N. J. B. 417, 1925, 39p.
- Sextius tenuis*  
nGoding, J. N. Y. Ent. Soc. 34, 245, 1926.
- Shade tree conferences**  
— J. Ec. Ent. 18, 760, 1925.  
— J. Ec. Ent. 19, 808, 1926.
- Shade tree insects**  
ibBaerg, Ark. B. 224, 1927, 25p.  
Bagnall, Tree Talk 7; 3, 28-29, 1926.  
Beaulne, Quebec Soc. Protec. Pl. R. 20, 79-83, 1928.  
Britton, Conn. B. 294, 204-207, 1928.  
Britton, Conn. B. 305, 679-683, 1929.  
Britton & Zappe, Conn. B. 292, 141-142, 160, 1927.  
Bugess, Internat. Cong. Ent. 4, Tr. 2, 571-578, 1929.  
Burgess, Nat. Shade tree Conf. R. 5, 63-64, 1929.  
Call, Kans. R. f. 1924-26, 82-83.  
Call, Kans. R. f. 1926-28, 78.  
Davey, Gard. Chron. Am. 31, 273, 1926.  
Davis, Ind. Acad. Sci. Proc. 35, 316, '27.  
Davis, Ind. Acad. Sci. Proc. 37, 43, '28.  
Felt, Tree Talk 8; 3, 12-14, 1927.  
Felt, N. Y. St. Mus. B. 274, 157-161, '28.  
Felt, Bartlett Trees Res. Lab. Radio tree talks, I, 5-8, 21-24, 28-31, 1929.  
Felt, J. Ec. Ent. 22, 417-420, 1929.  
Felt, Quebec Soc. Protec. Plants. R. 21, 43-48, 1929.  
Graham, Principles For. Ent., '29, 339p.  
Gray, Ark. B. 203, 32-37, 1926.  
Gray, Ark. B. 221, 36, 1927.  
Howard, USDA Ent. R. f. 1926, 24.  
Hutchings, Quebec Soc. Protec. Pl. R. 18, 113-117, 1926.  
Hutchings, Ont. Ent. Soc. R. 57, 8, '27.  
Hutchings, Ont. Ent. Soc. R. 58, 8, '28.  
Keen, Cal. Dept. Nat. Resources, Div. For. B. 7, 12-14, 1928.  
Lieber, Ind. Dept. Conserv. R. 6, 37-40, 1925; R. 10, 61-63, 1928.  
Mann, N. Y. C. R. 42, 31-32, 1929.  
Marlatt, U.S.D.A. Ent. R. f. 1929, 13

**Shade tree insects** *Cont'd*

- iMendenhall, Agr. Student 32, 197-198, 1926.  
 Middleton, J. Ec. Ent. 21, 421-431, '28.  
 Middleton, U.S.D.A. YB '27, 570-575, '28.  
 Middleton, Internat. Cong. Ent. 4, Tr. 2, 374-381, 1929.  
 Middleton, Garden Club. B 6 (ser. 4) 11-28, 1929.  
 O'Dell, Ariz. Com. Agr. & Hort. R. 15-16, 61, 68, 1925.  
 Perison, Me. For. Serv. B. 5, 68, 1927.  
 iSaftro, N. J. Dept. Agr. C. 156, '29, 33p.  
 iSanders, Goldfom 3; 2, 23-28, 1929.  
 iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 1926, 58p.  
 Swaine, Canada Dept. Agr. Pam. 97, 19-20, 1928.  
 Wallace, Ind. Dept. Conserv. R. 10, 61-63, 1929.  
 Wallace, Ind. Ent. R. f. 1927, 24-29.  
 Walsh, Amer. For. & For. Life, 33, 482, 1927.  
 iWells, Ent. News 37, 254-258, 1926.  
 liYoung, Purdue Agr. 24; 2, 57, 64, 66, 1929.
- Shade tree—Poison injection apparatus**  
 Jacobs, Davy Tree Inst. Res. Dept. B. 3, 1928, 6p.
- Shaft louse**, *see* *Menopon pallidum*
- Shagreened gem**, *see* *Desmocerus cribripennis*
- Shannonomyia**—n. gen.  
 nDyar, Amer. J. Hyg. 10, 117, 1929.
- Shannonomyia argenteiceps**  
 nAlexander, Ann. Ent. Soc. 22, 780, 1929.
- Shannonomyia lentina**  
 nAlexander, Ann. Ent. Soc. Amer. 21, 112-113, 1928.
- Shannonomyia longiradialis**  
 nAlexander, J. N. Y. Ent. Soc. 37, 97, '29.
- Shannonomyia mesophragma**  
 nAlexander, N. Y. Ent. Soc. J. 36, 52-53, 1928.
- Shannonomyia moctezuma**  
 nAlexander, Ann. Ent. Soc. Amer. 21, 111-112, 1928.
- Shannonomyia paraguayensis**  
 nAlexander, Ann. Ent. Soc. Amer. 22, 780-781, 1929.
- Sharp-headed leaf hopper**, *see* *Draecula-cephala mollipes*
- Sharp-nosed leafhopper**, *see* *Platymetopius frontalis*
- Sharp-shooter jassid**, *see* *Oncometopia undata*
- Sheep dip**, *see* *Dips for sheep*
- \*Sheep follicle mite**, *see* *Demodex canis ovis*
- Sheep insects**  
 Hall, U. S. F. B. 1330, rev. 1929, 35p.  
 Kauffman, Ohio Ext. B. 68, 20-21, 1927.  
 Shaw, Ind. Farm. Guide, 85, 936, 1929.  
 Hill, Rur. N. Y. 85, 578, 1926.
- Sheep ked (Sheep tick)\***, *see* *Melophagus ovinus*
- \*Sheep scab mite**, *see* *Psoroptes communis ovis*
- \*Sheep tick**, *see* *Melophagus ovinus*
- Shellenius**  
 nBall, Can. Ent. 60, 197, 1928.
- Shield-marked cutworm**, *see* *Parastichtis bicolorago*
- Shipworms—Paraffin protection**  
 — Sci. Service, Sci. Amer. 138, 278-279, 1928.
- Short circuit beetle**, *see* *Scobicia declivis*
- Short-nosed ox louse**, *see* *Haematopinus eurytetrus*
- Short-tailed cricket**, *see* *Anurogryllus muticus*
- Short-winged mole cricket**, *see* *Scapteriscus abbreviatus*
- Shot-hole beetle**, *see* *Xyleborus dispar*
- \*Shot-hole borer**, *see* *Scolytus rugulosus*
- Shrub insects—Conn.**  
 Britton, Conn. B. 285, 176-177, 1927.  
 Britton, Conn. B. 305, 683-684, 1929.
- Siamese grain beetle**, *see* *Lophocateres pusillus*
- Sibariops (Limnobaris) pella**  
 nBlatchley, J. N. Y. Ent. Soc. 36, 255, '28.
- Sibine berthans** 547, **clarans** 544, **didactica** 545, **dorans**, 544, **francesans** 547, **gertrudans** 547, **giseldans** 544, **hele-nana** 546, **hyperoche** 218, **iolans** 545, **joyceans** 545, **laurans** 546, **norans** 545, **ophelians** 546, **pricillans** 546, **quellans** 547, **reletiva** 546, **rollans** 547, **sarans** 547  
 nDyar, J. Wash. Acad. Sci. 17, 1927.

- Sibine stimulea* (Saddle-back caterpillar)\*  
 Beyer, Nation's Health 8, 10, 1926.  
 iBritton & Zappe, Conn. B. 292, 155, '27.  
 Watson, Fla. B. 183, 404-405, 1926.  
 Fla. Ent. 9, 45-46, 1925.
- Sibine tontineans* 544, *violans* 545,  
*ximenans* 545, *zellans* 547  
 nDyar, J. Wash. Acad. Sci. 17, 1927.
- Sicus ciliatus*  
 nVan Duzee, Cal. Acad. Sci. Proc. 16; 18,  
 599-600, 1927.
- Sicya sistenda*  
 nDyar, Pan-Pac. Ent. 4, 8, 1927.
- Sidemia devastator* (Glassy cutworm)\*  
 Caesar, Ont. Dept. Agr. B. 325, 6-8, '27.  
 Crumb, U.S.D.A. Tech. B. 88, 99-103, '29.
- Sidemia devastatrix*  
 Guyton and Stear, J. Ec. Ent. 22, 421,  
 1929.
- "Side worm," see *Carpocapsa pomonella*
- Sigalphus fulvus*  
 nBrues, Proc. Amer. Acad. Arts & Sci. 61,  
 269-271, 1926.
- Sigelotroxis*—n. gen., *parvus*  
 nAldrich, P. U. S. N. M. 74; 8, 3-4, 1928.
- Sight of insects, see *Insects—Vision*
- Signosomopsis eronis*, *townsendi*  
 nCurran, Ann. Ent. Soc. Amer. 22, 504-  
 506, 1929.
- Silaon niger* (Debris carrying wasp)  
 Rau, St. Louis Acad. Sci. Tr. 25, 375-  
 378, 1928.
- Silk in Greece*  
 Richter, Amer. J. Archeol. 33; 1, 27-33,  
 1929.
- Silk production*  
 Warner, J. Jam. Soc. 30, 511-513, 1926.  
 iPacific Purchaser 10: 12, 6, 8-9, 1928.
- \**Silkworm*, see *Bombyx mori*
- \**Silky ant*, see *Formica fusca subsericea*
- \**Silky cane weevil*, see *Metamasius seri-*  
*ceus*
- Silky robber fly*, see *Asilus sericeus*
- Silpha americana*, *noveboracensis*  
 Steele, J. N. Y. Ent. Soc. 35, 77, 1927.
- Silpha* spp.  
 Hatch, J. N. Y. Ent. Soc. 35, 342-345,  
 1927.  
 Milne, Canadian Field-Nat. 42, 43, '28.
- Silphidae*  
 Steele, J. N. Y. Ent. Soc. 35, 77-81, '27.
- Silphinae*  
 iHatch, J. N. Y. Ent. Soc. 35, 331-370,  
 1927.  
 Hatch, Minn. Tech. B. 48, 1927, 19 p.  
 Hatch, J. N. Y. Ent. Soc. 35, 332-337,  
 1927.
- Silphomorpha* spp.  
 Notman, P. U. S. N. M. 67, Art. 14, 23-  
 24, 1925.
- Silvanus gemellatus* (Square-necked grain  
 beetle)  
 Back & Cotton, U. S. F. B. 1260; rev.  
 Dec. 1925, 30-31.
- Silvanus surinamensis*, see *Oryzaephilus*  
*surinamensis*
- \**Silver fish*, see *Lepisma saccharina*
- Silveria*—n. gen., *adelphila*, *hexhex*  
 Dyar, Insec. Ins. Mens. 13, 10-11, 1925.
- Simaethis pariana*  
 Brittain, Ont. Ent. Soc. R. 59, 9, 1929.  
 Gilliatt, Ont. Ent. Soc. R. 59, 12, 1929.
- Simona*  
 nAldrich, P. U. S. N. M. 69, Art. 22, 20-  
 21, 1926.
- Simona grahami*  
 nAldrich, P. U. S. N. M. 69, Art. 22, 21-  
 22, 1926.
- Simuliidae* (Black flies)  
 Bequaert, Harvard Inst. Trop. Biol. &  
 Med. Cont. 4, 209-211, 1926.  
 iDyar & Shannon, P. U. S. N. M. 69: 10,  
 1927, 54p.  
 Mott, Can. Lumberman 48: 15, 32, '28.  
 iO'Kane, N. H. Tech. B. 32, 1926, 24p.
- Simulium amazonicum* and disease  
 Bequaert, Harvard Inst. Trop. Biol. &  
 Med. Cont. 4, 211-214, 1926.
- Simulium bracteatum*  
 biO'Kane, N. H. Tech. B. 32, 20, 1926.  
 Walker, Can. Ent. 59, 123, 1927.
- Simulium columbaczense*  
 Webber, J. Ec. Ent. 20, 309, 1927.
- Simulium damnosum*  
 Bequaert, Internat. Cong. Ent. 4, Tr. 2,  
 605-607, 1929.
- Simulium hirtipes*  
 biO'Kane, N. H. Tech. B. 32, 19-20, 1926.
- Simulium johannseni*  
 iSwenk & Mussehl, Neb. C. 37, 15-16, '28.
- Simulium meridionale* (Turkey gnat)\*  
 biO'Kane, N. H. Tech. B. 32, 20-21, 1926.  
 iSwenk & Mussehl, Neb. C. 37, 15-16, '28.

**Simulium ornatum**

Pillers, Vet. Rec. 7, 529, 1927.

**Simulium piscicidium**

biO'Kane, N. H. Tech. B. 32, 21, 1926.

**Simulium sanguineum**

Dunn, Amer. Jr. Trop. Med. 9, 503, '29.

**Simulium spp.**

iChandler, Animal Parasites ed. 3, 478-484, 1925.

Felt, N. Y. St. Mus. B. 274, 25-26, 1928.

Kendall, N. H. B. 221, 13, 1926.

iNeedham and Christenson, Utah B. 201, 25-26, 1927.

biO'Kane, N. H. Tech. B. 32, 21-22, 1926.

**Simulium venustum**

biO'Kane, N. H. Tech. Bul. 32, 18, 1926.

iSwenk & Mussehl, Neb. C. 37, 15-16, 1928.

**Simulium virgatum—B. C.**

iHearle, B. C. Ent. Soc. Proc. 26, 48-54, 1929.

**Simulium vittatum**

biO'Kane, N. H. Tech. B. 32, 18-19, 1926.

iSwenk & Mussehl, Neb. C. 37, 15-16, '28.

**Sinea diadema (Assassin bug)**

Aaron, Nature Mag. 14, 283, 1929.

**Sinodendron rugosum**

Hayes, Ann. Ent. Soc. Amer. 21, 245, 1928.

**\*Sinuate pear tree borer, see Agrilus sinuatus****Siobla ruficornis**

Rohwer, P. U. S. N. M. 68, Art. 8, 6, '25.

**Sipha flava (Yellow sugarcane aphid)**

bEarle, Facts About Sugar Cane 22, 1013 cont. 1018, 1927.

**Siphonella n. gen., ventilans**

Needham & Murphy, Lloyd Lib. B. 24, 30-31, 1924.

**Siphonurus barbaroides 174-175, columbianus 187, luridipennis 190-191.**

niMcDunnough, Can. Ent. 58, 1926.

**Siphonurus occidentalis**

iNeedham & Christenson, Utah B. 201, 12, 1927.

**Siphonurus quebecensis**

McDunnough, Can. Ent. 57, 186-187, '25.

**Siphonurus securifer**

nMcDunnough, Can. Ent. 58, 301, 1926.

**Siphonacme—n. gen., lyttoni**

nCook & Loomis, P. U. S. N. M. 72; 19, 7-8, 9-10, 1928.

**Siphonaptera**

iBrittain, N. S. Dept. Nat. Resource B. 12, 103-104, 1927.

Jordan, Internat. Cong. Ent. 4, Tr. 2, 489-499, 1929.

**Siplectia blanda**

Schoene, Va. Poly. R. f. 1919-27, 49.

**Sirex juvencus (Giant horntail)**

Johnson, Bost. Soc. Nat. Hist. B. 49, 4, 1928.

**Siricidae**

Johnson, Bost. Soc. Nat. Hist. B. 49, 3-7, 1928.

**Sisyrosea brusha**

nDyar, J. Wash. Acad. Sci. 17, 548-549, 1927.

**Sisyrosturnia, n. gen., chaetosa**

Townsend, Ins. Insc. Mens. 14, 35-36, 1926.

**Sitaris humeralis**

Rau, St. Louis Acad. Sci. Tr. 25, 236-237, 1927.

**\*Sitka-spruce beetle, see Dendroctonus obesus****Sitodrepa panicea (Drug-store weevil)\***

iBack & Cotton, U. S. F. B. 2160; rev. Dec. 1925, 37.

iGibson & Twinn, Can. Dept. Agr. B. 112, 48-49, 1929.

**Sitones hispidulus**

Call, Kans. R. f. 1924-26, 81.

Hudson, Ont. Ent. Soc. R. 56, 79, 1926.

iPettit, Mich. Sp. B. 183, 47-49, 1929.

**Sitophilus genus—History**

Pierce, Proc. Ent. Soc. Wash. 27, 113, '25.

**Sitophilus granarius (Granary weevil)\***

biAbbott, Ann. Ent. Soc. Amer. 22, 331-334, 1929.

iBack & Cotton, U. S. F. B. 1260; rev. Dec. 1925, 4-5.

biBack & Cotton, U. S. D. A. B. 1393, 1926, 36p.

Barre, S. C. Ann. R. 40, 44, 1927.

iBrittain, N. S. Dept. Nat. Resource B. 12, 123-124, 1927.

Christie, Ind. R. 28, 24, 1926.

Cooley, Mont. B. 170, 27, 1925.

Essig, Pan-Pac. Ent. 3, 195, 1927.

Houser, Ohio Farm. 162, 373, 1928.

iMackie, Cal. C. 282, 4, 1925.

1-hiMohler, Kans. St. Bd. Agr. Quar. R. 48: 191, 228-230, 1929.

- Neifert, et al, U.S.D.A.B. 1313, '25, 39p.  
 biRobinson, Minn. Tech. B. 41, 1926, 43p.  
 Sherman, N. C. R. 47, 72, 1925.  
 Watson, Fla. Dept. Agr. Quar. B. 39; 3;  
 95-96, 1929.  
 iWhitehead, J. Agr. & Hort. 31, 69, 1927.  
 Amer. Agr. 122: 25-26, 511, 1928.
- Sitophilus oryzae (Rice weevil)\***  
 iBack & Cotton, U.S.F.B. 1260; rev.  
 Dec. 1925, 5-8.  
 Back & Cotton, U.S.F.B. 1483; Rev.  
 Dec. 1929, 4.  
 Barre, S. C. R. 42, 64-66, 1929.  
 Essig, Pan-Pac. Ent. 3, 195, 1927.  
 iGibson & Twinn, Can. Dept. Ag. B. 112,  
 31-32, 1929.  
 Reppert, Tex. Ext. C. 50, Nov. 1925, 2p.  
 bRoark & Cotton, J. Ec. Ent. 21, 137, '28.  
 biRobinson, Minn. Tech. B. 41, 1926, 43p.  
 ihiMohler, Kans. St. Bd. Agr. Quar. R.  
 48: 191, 230, 1929.
- Sitophilus sp.—Fumigant for**  
 Nation's Health 7; 2; 158, 1925.
- Sitotroga cerealella (Angoumois grain  
 moth)\***  
 liBack, U. S. F. B. 1156 rev. Jl. 1929, 17p.  
 iBack & Cotton, U. S. F. B. 1260; rev.  
 Dec. 1925, 13-15.  
 Back & Cotton, U. S. F. B. 1483, Rev.  
 Dec. 1929, 4.  
 Flanders, J. Ec. Ent. 22, 601, 1929.  
 Gibson & Twinn, Can. Dept. Ag. B. 112,  
 33, 1929.  
 Howard, U.D.S.A. Ent. R. f. 1925, 15.  
 Mohler, Kans. St. Bd. Agr. Quar. R. 48:  
 191, 231-233, 1929.  
 Schoene, Va. St. Crop Pest Com., Quar.  
 B. 7; 4, 21-23, 1926.  
 biSimmons & Ellington, J. Ec. Ent. 18,  
 309-320, 1925.  
 Simmons & Ellington, J. Agr. Res. 34,  
 459-471, 1927.  
 Symons, Univ. Md. Ext. Serv. R. 10,  
 122, 1925.
- Sixeonotus albicornis**  
 nBlatchley, Ent. News 37, 167-168, 1926.
- Sixeonotus albohirtus**  
 nKnight, Brklyn Ent. Soc. B. 21, 107, '26.
- Sixeonotus aerolatus 243-244, basicornis**  
 248-249, brevirostris 245-246.  
 nKnight, Brklyn. Ent. Soc. B. 23: 1928.
- Sixeonotus brevis**  
 nKnight, Bklyn. Ent. Soc. B. 21, 107-108,  
 1926.
- Sixeonotus deflatus 246-247, dextratus**  
 244-245  
 nKnight, Brklyn, Ent. Soc. B. 23: 1928.
- Sixeonotus gracilis**  
 nBlatchley, Ent. News 37, 168, 1926.
- Sixeonotus nicholi 242-243, pusillus 248.**  
 nKnight, Brklyn. Ent. Soc. B. 23: 1928.
- Sixeonotus recurvatus**  
 nKnight, Brklyn. Ent. Soc. B. 24, 153-  
 154, 1929.
- Sixeonotus rostratus**  
 nKnight, Brklyn. Ent. Soc. B. 23: 245, '28.
- Sixeonotus spp.**  
 Blatchley, Ent. News 37, 168-169, 1926.
- Sixeonotus unicolor**  
 nKnight, Brklyn. Ent. Soc. B. 23: 247, '28.
- \*Six-spotted leafhopper, see Cicadula sex-**  
**notata**
- Six-spotted mite, see Tetranychus sex-**  
**maculatus**
- Skinner, Henry**  
 bCalvert, Ent. News 37, 225-233, 1926.  
 [port.]  
 Cresson, Ent. News 37, 234-246, 1926.  
 Ent. News 37, 215, 1926.
- Skinworm, see Argyrotaenia (Tortrix)**  
**franciscana**
- Slender seed corn beetle, see Clivina im-**  
**pressifrons**
- Slugs**  
 iCaesar, Ont. Dept. Agr. B. 325, 14-15, '27.  
 Caesar, Ont. Veg. Grow. Assoc. R. 22,  
 14, 1927.  
 Severin, So. Dak. Ent. R. 15, 60, 1924.  
 Florists' Exc. 62, 709, 1926.
- Small body hen louse, see Menopon**  
**pallidum**
- Small cabinet beetle, see Anthrenus**  
**verbasci**
- Small-eyed flour beetle, see Palorus ratze-**  
**burgi**
- Small fruit insects**  
 Chapman, Market Gr. J. 40: 1, 29, 1927.  
 Cooley, Proc. Mont. Hort. Soc. 28, 101-  
 104, 1925.  
 iSwartwout, Mo. B. 232, 9-11, 1925.  
 Am. Fr. Gr. Mag. 45: 5, 36, 1925.  
 Market Growers J., 42, 314, 338-40, '28.
- Small green rose aphid, see My**



- \*Smaller Mexican pine beetle, *see* *Dendroctonus mexicanus*
- Smaller webworm, *see* *Tetralopha subcanalis*
- Smaller western pine engraver, *see* *Ips latidens*
- Smartweed borer, *see* *Pyrausta ainsliei*
- Smicromorpha *minera*  
nGirault, Ins. Insc. Mens. 14, 70, 1926.
- Smicronyx *minutissimus*  
nBlatchley, J. N. Y. Ent. Soc. 36, 244, '28.
- Sminthurus *hortensis* (Garden spring tail)\*  
iBrittain, N. S. Dept. Nat. Resource B. 12, 74-75, 1927.  
iBritton & Anderson, Conn. Tobacco Expt. Sta. B. 6, 86T-87T.  
iBritton & Zappe, Conn. B. 292, 169, '27.  
Spittall, Proc. Acadian Ent. Soc. 10, 65, '25.
- Sminthurus *sp.*  
iSpencer & Henderson, Va. Truck B. 52, 399, 1925.
- Smith, Edgar Fahs  
Taggart, Science 68, 6-8, 1928.
- Smith, Sidney Irving—Obituary 1843-1926  
Verrill, Science 64, 57-58, 1926.
- Smoke, *see* Insecticides—Smoke-Toxic
- Smut beetle, *see* *Phalacrus politus*
- Snails  
D. M. B., Rural N. Y. 86, 22, 1927.  
Kemper, Sugar B. 5, 21, 2-3, 1926.  
Rubel, Flow. Gr. 16, 207, 1929.  
Rur. N. Y. 86, 1419, 1927.
- Snapdragon pests  
Herrick, J. Ec. Ent. 20, 738-740, 1927.
- Snout butterfly, *see* *Libythea bachmani*
- Snow scale, *see* *Chionaspis citri*
- Snowflake mayfly, *see* *Tricorythus explicatus*
- \*Snowy tree cricket, *see* *Oecanthus niveus*
- Soap, *see* Spraying—Soap
- Sobrinus  
niDeLong & Slesman, Ann. Ent. Soc. Amer. 22, 100, 1929.
- Social insects  
iCarpenter, Biology of insects, 218-261, '28.  
biDunn, Amer. J. Pharm. 96:6, 412-435, '24.  
Thomas, New Nat. Hist. 1, 1926, 337-356.  
Thomson, Quar. R. 252, 357-379, 1929.  
iWheeler, Social Insects, 1928, 378 p.
- Sod webworm, larger, *see* *Crambus trisectus*
- Soft brown scale, *see* *Coccus hesperidum*
- \*Soft scale, *see* *Coccus hesperidum*
- Sogata *parvula*  
nOsborn, Ann. Ent. Soc. Amer. 19, 359, '26.
- Soil fumigation  
Fleming, Nat. Nurserym. 36, 321, 326, '28.  
Leach, J. Agr. Res. 33; 1, 1-8, 1926.  
Major, Sci. Agr. 6, 283-285, 1926.  
iMason, Spraying, 241-253, 1928.  
Merrill, Cal. R. 1924-25, 51, 1926.  
Miller, Better Fruit 23: 6, 16, 18, 1928.  
VanZwaluwenburg, Assoc. Hawaiian Sugar Tech. R. 5, 23, 1926.  
Whitcomb, Mass. B. 249, 43, 1929.
- Soil-infesting insects  
Ansell, Amer. City 40; 1, 145-146, 1929.  
Beckwith & Fuge, N. J. R. 50, 193-197, '29.  
Headlee, N. J. R. 1924, 305, 1925.  
Headlee, N. J. R. 49: 172, 1928.  
Illingworth, Hawaii Pineapple Cannery Assoc. Pineapple News 1, 35-38, 1927.  
King & Atkinson, J. Ec. Ent. 20, 821-831, 1927.  
Lipman, N. J. R. 46, 24, 1926.  
bMcColloch, J. Amer. Soc. Agronomy, 18, 143-150, 1926.  
McColloch & Hayes, Internat. Cong. Ent. 4, Tr. 2, 306-315, 1929.  
Melandar, Wash. B. 196, 23-24, 1925.
- biSpencer & Stracener, Ann. Ent. Soc. Amer. 22, 641-647, 1929.
- Stahl & Scaramuzza, Trop. Pl. Res. Found B. 10, 1929, 19 p.
- Trazardh, Internat. Cong. Ent. 4, Tr. 2, 781-792, 1929.
- Webster, Wash. B. 222, 22-23, 1927.  
Webster, Wash. B. 229, 27-28, 1928.  
Weigel, Amer. Hort. Soc. B. 3, 10-12, 1926.
- Soldier fly, *see* *Stratiomyia melanostoma*
- Solenius *seamansi*  
nCarter, Can. Ent. 57, 135-136, 1925.
- Solenococcus—gen., *corokiae*  
Morrison & Morrison, P. U. S. N. M. 71: 17, 33-35, 1927.
- Solenopsis *conjurata*  
biWheeler, Biol. Bul. 49, 178-180, 1925.
- Solenopsis *geminata* (Fire ant)\*  
bEarle, Facts about Sugar 22, 1010, 1927.  
Illingworth, Assoc. Haw. Pineapple Cannery Exp. Sta. B. 7, 8, 1926.

- iSchoonover, Cal. Cit. 12, 299, 1927.  
 Youngblood, Tex. R. 38, 22, 1925.  
 Calif. Cult. 69, 209, 1927.  
 Citrus Leaves, 8; 2, 7, 1928.
- Solenopsis geminata**—Parasites  
 bSmith, Proc. Ent. Soc. Wash. 30, 105-108, 1928.
- Solenopsis molesta**  
 Park, Ent. News 40, 325-326, 1929.  
 Park, Psyche, 36, 204-205, 1929.
- Solenopsis picta**  
 Smith, Ent. News 38, 309, 1927.
- Solubea insularis**  
 Essig, Pan-Pac. Ent. 4, 128, 1928.
- Solubea pugnax** (Rice stink bug)  
 Davis, Brooklyn Ent. Soc. B. 20, 147, 1925.  
 iIngram, U. S. F. B. 1543, 1-4, 1927.
- Somera acasia**  
 nSchaus, P. U. S. N. M. 73; 19, 75, 1928.
- Sonia canadana**  
 nMcDunnough, Can. Ent. 57, 115-116, '25.
- Sonification of insects**  
 Allard, C. Centl. 92; 2, 22-23, 1927.  
 Allard, Science 67, 613-614, 1928.  
 Allard, Smithsonian R. f. 1928, 563-591, '29.
- iAllard, Sci. Mo. 27, 81-88, 1928.  
 Cockerell, Nature Mag. 5, 220-222, '25.  
 Howes, Nat. Mag. 8, 155-157, 1926.
- iLaufer, Field Mus. Nat. Hist. Anthropol. Leaf. 22, 27 p. 1927.  
 Lutz, Nat. Hist. N. Y. 26, 206, 1926.  
 Lutz, Nat. Hist. 29: 2, 160-162, 1929.  
 Reynolds, St. Nicholas 53, 809-810, '26.  
 Ruedemann, Science 65, 163, 1927.  
 Snodgrass, Smithsonian Inst. R. f. 1923, 405-452, 1925.  
 R. of R's, 71, 542-543, May, 1925.
- Sonora cotton square dauber**, *see* **Creontiades debilis**
- Sorghum insects**  
 Call. Kans. R. f. 1924-26, 77-79.  
 Call. Kans. R. f. 1926-28, 73-74.
- \***Sorghum webworm**, *see* **Celama sorghiella**
- Sorineuchora n. gen., javanica**  
 nCaudell, P. U. S. N. M. 71: Art. 3, 14-15, 1928.
- Sotigena solivaga**  
 niSchaus, Proc. Ent. Soc. Wash. 31, 49-50, '29.
- \***Southern armyworm**, *see* **Xylomyges eridania**
- \***Southern beet webworm**, *see* **Pachyzancla bipunctalis**
- \***Southern cabbage worm**, *see* **Pontia protodice**
- Southern corn rootworm** (Spotted cucumber beetle), *see* **Diabrotica duodecempunctata**
- \***Southern corn stalk borer**, *see* **Diatraea zeacolella**
- \***Southern cowpea weevil**, *see* **Mylabris quadrimaculatus**
- \***Southern green stink bug**, *see* **Nezara viridula**
- Southern horn worm**, *see* **Protoparce sexta**
- Southern lubberly grasshopper**, *see* **Romalea microptera**
- \***Southern pine beetle**, *see* **Dendroctonus frontalis**
- \***Southern pine sawyer**, *see* **Monochamus titillator**
- Southern Plant Quar. Bd.** *see* **Plant Board, Southern**
- \***Southwestern pine beetle**, *see* **Dendroctonus barberi**
- Sowbugs**  
 Dean, Amer. Flor. 71; 47, 6, 1929.  
 iGibson & Twinn, Can. Dept. Agr. B. 112, 73, 1929.  
 Severin, So. Dak. Ent. R. 15, 62, 1924.
- Sow-thistle aphid**, *see* **Amphorophora cosmopolitana**
- Soybean insects**  
 Douglas, Rice J. 32: 12, 24, 1929.  
 Nickels, J. Ec. Ent. 19, 614-618, 1927.
- Spalacopsis suffusa**  
 Blatchley, Can. Ent. 57, 167, 1925.
- Spangbergiella vulnerata**  
 Osborn, Porto Rico Dept. Agr. J. 13, 94, 1929.
- Spaniocelyphus nigrocoeruleus, sumatranus**  
 nMalloch, P. U. S. N. M. 74; 6, 11-12, '29.
- Spaniophlebia escomeli**  
 iCockerell, Brklyn. Ent. Soc. B. 21, 189-190, 1926.
- Spanish red scale**, *see* **Chrysomphalus dictyospermi**
- Sparaison pilosum**  
 iCowan, U. S. D. A. Tech. B. 161, 22, '29.
- Spatialia bronacha**  
 nSchaus, P. U. S. N. M. 73; 19, 73, 1928.

- Spathidexia atypica**  
nCurran, Amer. Mus. Nov. 260, 11-12, '27.
- Spathius** sp.  
Taylor, Ent. Amer. 10; 69, 1929.
- Spaziphora cincta**  
Curran, Can. Ent. 59, 256, 1927.
- Species—Differentiation**  
Crampton, Science 67, 615-619, 1928.
- Species—Index to literature**  
Cresson, Internat. Cong. Ent. 4, Tr. 2, 484-488, 1929.
- Speiseria ambigua**  
nKessel, J. N. Y. Ent. Soc. 33, 19, 1925.
- Speratobombus—new genus**  
nFrison, Trans. Amer. Ent. Soc. 53, 64-65, 1927.
- Sphaerocera annulicornis** 120, **bimaculata** 121, **curvipes** 119, **flaviceps** 120, **nigrifemur** 122, **pusilla** 122-123, **scabra** 122, spp.—key 118-119, **striata** 122, **varipes** 121-122  
nAldrich, Proc. Ent. Soc. Wash. 27, 1925.
- Sphaerocysta egregia** 44, **fumosa** 44, **stali** 43  
nDrake, Iowa St. Col. J. Sci. 3, 1928.
- Sphaeroderus lecontei**  
Fletcher, Can. Ent. 61, 257, 1929.
- Sphaeroma pentodon**  
Miller, Ecology 7, 251, 1926.
- Sphaerophoria scripta**  
biFluke, Wis. Res. B. 93, 31-32, 1929.
- Sphagoeme ochracea**  
nFisher, Proc. Ent. Soc. Wash. 29, 23-24, '27.
- Sphallomorpha** spp.—Key  
Notman, P. U. S. N. M. 67, Art. 14, 25-26, 1925.
- Spharagemon aequale**, **cristatum**, **inornatum**  
Hubbell, Fla. Ent. 9, 44, 1925.
- Sphecius speciosus**  
iChamplain, Nat. Mag. 14; 176, 1929.  
Fernald, Applied Ent. ed. 2, 363, 1926.  
Smith, J. Econ. Ent. 18, 836, 1925.
- Sphecodes bequaerti**  
nMeyer, Brklyn. Ent. Soc. B. 21, 191-192, 1926.
- Sphecodina abbotti** (Abbot's sphinx)  
iBritton & Zappe, Conn. B. 292, 156, '27.
- Sphecoidea**  
nCarter, Can. Ent. 57, 131-136, 1925.
- Sphecomomyia dyari**  
nShannon, Pan-Pac. Ent. 2, 43-44, 1925.
- Sphenometopa** gen., 62-64, **cocklei** 67-68, **nubulosa** 66-67, spp.—key to North American 64-66  
Allen, P. U. S. N. M. 68, Art. 9, 1926.
- Sphenomyia banffi**  
nSeamans, Can. Ent. 58, 175-176, 1926.
- Sphenophorus** genus  
Pierce, Proc. Ent. Soc. Wash. 17, 113, '25.
- Sphenophorus callosus** (Curlew bug)  
Wray, N. C. R. 50, 111-112, 1927.
- Sphenophorus maidis** (Maize billbug)  
biAbbott, Ann. Ent. Soc. Amer. 22, 331-334, 1929.  
Barre, S. C. R. 39, 35, 1926.  
iMohler, Kans. St. Bd. Agr. Quar. R. 48; 191, 208-210, 1929.
- Sphenophorus oryzae** (Rice Weevil), *see* **Sitophilus oryzae**
- Sphenophorus** spp. (Corn billbugs)\*  
Barre, S. C. Ann. R. 40, 44, 1927.  
Barre, S. C. R. 42; 68, 1929.  
Watson, Fla. Dept. Agr. Quar. B. 39: 3; 93-94, 1929.
- Sphex cementarius**  
iWalker, Flower Gr. 14, 510-511, 1927.
- Sphex conditor**  
Fernald, Ann. Ent. Soc. Amer. 19, 89, '26.
- Sphex lobatus**  
Hingston, Instinct & Intelligence, 1929, 57-62, 192-193.
- Sphex procerus**  
Fernald, Ann. Ent. Soc. Amer. 19, 88-92, 1926.
- Sphinx chersis**  
iBrittain, N. S. Dept. Nat. Resources B. 12, 23-24, 1927.
- Sphyracephala brevicornis** (Stalk-eyed, stem-eyed fly)  
Curran, Nat. Hist. 29, 614, 1929.
- Spider bite**  
Bogen, J. Am. Med. Assoc. 86, 1184-96, '26.  
Dowling, La. St. Bd. Health Quar. B. 17, 157, 1926.
- Spider mite gall**, *see* **Phyllocoptes toxicophagus**
- Spider vs. Pinch bug.**  
Capps, Nat. Mag. 8, 254, 1926.
- Spiders**  
iAaron, Scientific American, 132, 16, '26.  
iAaron, Sci. Amer. 132, 160, 1925.  
iBishop, N. Y. St. Mus. B. 260, 39-41, '25.

- iBonich & Cadaval, R. deCuba, 10; 23-34, Jan. 1929.
- iCarrick, C. Life, 55, 53-54, Dec. 1928.
- iChamplain, Nat. Mag. 9, 371, 1927.
- Dee, St. N. 55, 995, Oct. 1928.
- Felt, N. Y. St. Mus. B. 274, 69, 1928.
- Gibson & Twinn, Can. Dept. Agr. B. 112, 71-72, 1929.
- Howes, Nat. Mag. 7, 145-147, 1926.
- Peeples, Nat. Mag. 9, 318, Mar. 1927.
- iPetrunkevitch, Ann. Ent. Soc. Amer. 18, 313-322, 1925.
- Petrunkevitch, Conn. Acad. Sci. Trans. 29, 1-270, 1928.
- iPhillips, Spider Webs & Sunflowers, 1928, 257 p.
- Savory, Sci. Prog. 20, 475-480, 1926.
- iSavory, Biol. Spiders 1929, 376 p.
- Shaw, Flower Grow. 16; 33, Ja. 1929.
- Sweet, Catholic World 129, 73-75, Apr. '29.
- Tevis, St. N. 54, 131, Dec. 1926.
- Thomson, New Nat. History 1, 327-336, 1926.
- Spilochalcis torvina**  
bMuesebeck & Dohanian, U. S. D. A. B. 1487, 19, 1927.
- Spilomicrus kiefferi, virginicus**  
nFouts, Proc. Ent. Soc. Wash. 27, 150-151, 168, 1925.
- Spilonota ocellana**, *see* **Tmetocera ocellana**
- Spilosoma virginica**  
Peirson, Me. For. Serv. B. 5, 46, 1927.
- Spilothynnus thalluse**  
Cockerell, Psyche, 36, 241, 1929.
- \***Spinach leaf miner**, *see* **Pegomyia hyoscyami**
- Spindle worm**, *see* **Achatodes zeae**
- Spine-tailed earwig**, *see* **Doru aculeatum**
- \***Spined soldier bug**, *see* **Podisus maculiventris**
- Spinoliella australior**  
biCuster, Psyche 34, 199-202, 1927.
- Spinoliella equina, triangulifera**  
nCockerell, Proc. Cal. Acad. Sci. Ser. 4, 14; 11, 195-197, 1925.
- Spinose ear tick**, *see* **Ornithodoros megnini**
- Spiny elm caterpillar**, *see* **Aglais antiopa**
- \***Spiny oak worm**, *see* **Anisota stigma**
- Spiny rose gall**, *see* **Rhodites bicolor**
- Spiraea aphid**, *see* **Aphis spiraeicola**
- Spirocheta gallinarum**  
Patterson, Vet. Med. 23, 242, 1928.
- Spittle insects**, *see* **Cercopidae**
- Spodarcia superpulvrea**  
nDyar, Ins. Insc. Mens. 13, 3, 1925.
- \***Spotted asparagus beetle**, *see* **Crioceris duodecimpunctata**
- Spotted beet webworm**, *see* **Hymenia perspectalis**
- \***Spotted blister beetle**, *see* **Epicauta maculata**
- Spotted camel cricket**, *see* **Ceuthophilus maculatus**
- \***Spotted cucumber beetle**, *see* **Diabrotica duodecimpunctata**
- \***Spotted cutworm**, *see* **Agrotis c-nigrum**
- Spotted fever tick**, *see* **Dermacentor venustus**
- Spotted garden slug**, *see* **Limax maximus**
- Spotted-legged cutworm**, *see* **Porosagrotis vetusta**
- Spotted root fly**, *see* **Euxestes natata**
- Spotted-sided cutworm**, *see* **Agrotis badinodis**
- Spotted tree borer**, *see* **Synaphaeta guexi**
- \***Spotted tussock moth**, *see* **Halisidota maculata**
- Spotted willow leaf beetle**, *see* **Lina lapponica**
- Spray calendars and programs**  
Alsmeyer, Valley Farmer & Citrus Gr., 3; 2, 14, 1925.
- Alsmeyer, Valley Farmer & Citrus Gr., 4, 1-3, 14, 1926.
- Alsmeyer, Valley Farmer & Citrus Gr., 4: 4-5, 14-15, 1926.
- Berger, Citrus Indus. 6; 4, 22, 1925.
- Barss & Mote, Better Fruit 19, 12-13, Feb. 1925.
- Barss & Mote, Better Fruit, 21: 8, . . .
- Blanchard, Cal. Cult. 68, 446, 1927.
- iBritton & Clinton, Conn. B. 271, 93-139, 1926.
- Bunting, J. Agr. & Hort. 28, 168, 1925.
- Cardinell, Ann. R. Mich. St. Hort. Soc. 56, 130-134, 1926.
- iChilds, Better Fruit 22: 8, 32-34, 1928.
- Cory, Md. St. Hort. Soc. R. 28, 208, '26.
- Cory, Md. St. Hort. Soc. R. 30, 247-251, 1928.
- Dunlap, Perrine & Brook, Ill. St. Hort. Soc. Tr. 63, 43-75, 1929.
- Dutton, Amer. Fr. Grow. Mag. 47; 2, 11-12, 1927.

**Spray calendars and programs—Middle West**

Talbert, Amer. Fr. Grow. Mag. 45; 2, 34-35, 1925; 46; 2, 14, 1926; 47; 2, 14, 1927; 48; 2, 10-11, 1928; 49; 2, 14-15, 1929.

**Spray calendars and programs—Minnesota**

Minn. St. Hort. Soc. R. 52, 119-120, '24.  
Minn. Hort. 57, 115-116, 1929.

**Spray calendars and programs—New England**

Drain, Amer. Fr. Grow. 47, 2, 12, 1927.  
Drain, Amer. Fr. Grow. Mag. 48; 2, 28-29, 1928.

Drain, Amer. Fr. Grow. Mag. 46; 2, 46, '26.  
Sears, Amer. Fr. Grow. Mag. 45; 2, 24, '25.

**Spray calendars and programs—New standards**

Thurston, Amer. Fr. Grow. 48, 7, 1928.

**Spray calendars and programs—New York**

Amer. Fr. Grow. Mag. 45; 2, 22, 1925.  
Amer. Fr. Grow. Mag. 46; 2, 11, 1926.  
Amer. Fr. Grow. 47; 2, 8, 1927.  
Amer. Fr. Grow. Mag. 48; 2, 14, 1928.

**Spray calendars and programs—Northern California**

Day, Amer. Fr. Grow. Mag. 48; 2, 24, '28.  
Hendrickson, Amer. Fr. Grow. 47, 2, 16-17, 1927.  
Tufts, Amer. Fr. Grow. Mag. 45; 2, 16-18, 1925.

Tufts, Amer. Fr. Grow. Mag. 46; 2, 26, '26.  
Amer. Fr. Grow. Mag. 45; 2, 18, 1925.

**Spray calendars and programs—North Central States**

Walker, Amer. Prod. Grow. 4; 7, 8, '29.

**Spray calendars and programs—Ontario**

Caesar et al, Farm. Advoc. 60, 421, '25.  
Caesar et al, Farm. Advoc. 61, 444, '26.  
Caesar et al, Farm. Advoc. 62, 571, '27.

**Spray calendars and programs—Orchards**

iBarss & Mote, Oreg. Ext. B. 380, 1925, 20p.  
iBarss & Mote, Oreg. Ext. B. 388, 1926, 20p.  
Barss & Mote, Oreg. St. Hort. Soc. Bien. Rept. 19, 74-79, 1927.

Childs, Amer. Fr. Grow. Mag. 47; 2, 30-31, 1927.

Childs & Barss, Amer. Fr. Grow. Mag. 46; 2, 12, 1926.

Drain & Roberts, Mass. Ext. Leaf. 100-B, 1927, 2 p.

iMoore & Schilleter, S. C. Clem. Coll. Ext. C. 59, 1925, 8 p.

Schilleter, S. C. Ext. Bull. 89, 16-17, 23-27, 1929.

Urbahns & Milbrath, Cal. Cult. 71, 549, 557, 1928.

Whitcomb, Mass. B. 247, 318, 1929.

iYoung, Houser & Ballou, Ohio B. 393, 1926, 26 p.

Del. Ext. C. 18, 1925, 8 p.

Okla. Ext. C. 168 rev. 1926, 8 p.

Wis. Hort. Supp. 19, 1928, March.

**Spray calendars and programs—Oregon**

Barss & Mote, Oreg. St. Bd. Hort. Bien. R. 19, 74-85, 1927.

Bouquet, Amer. Prod. Grow. 4; 7, 7-8, '29.

Morris, Amer. Prod. Grow. 4; 7, 6-8, '29.

Mote & Zeller, Oreg. Ext. B. 403, 1928, 21 p.

Better Fruit, 21: 8, 15, 1927.

**Spray calendars and programs—Pacific Northwest**

Childs, Amer. Fr. Grow. Mag. 45; 2, 28-29, 1925.

Childs & Barss, Amer. Fr. Grow. Mag. 48; 2, 20, 1928.

Childs & Barss, Amer. Fr. Grow. Mag. 49; 2, 24-25, 1929.

**Spray calendars and programs—Peach**

Anderson, Miss. C. 66, 1926, 4 p.

Brannon, N. C. Ext. C. 153, 4-5, 1925.

Barss, Oreg. St. Hort. Soc. Bien. Rept. 19, 81, 1927.

Darrow, Conn. Storrs Ext. Col. Peach spray, 1926.

Davis, Hoosier Hort. 8, 62, 1926.

iDrain & Roberts, Mass. Ext. Leaf. 100-B, 1927, 2 p.

James & Watson, Fla. Grow. 33; 11, 24, '26.

James & Watson, Fla. P. B. 373, '26, 2 p.

James & Watson, Fla. Dept. Agr. Quar. B. 39; 3, 177-178, 1929.

Koerner, Va. Dept. Agr. B. 219, 4, 1926.

Mann, Cornell Univ. Ext. Serv. Peach Schedule, 1925.

Motz, Schneiderhan & Schoene, Va. Ext. B. 94, 10, 1925.

Motz, Schneiderhan, & Hough, Va. Poly. B. 111, 14, 1929.

Schneiderhan, Ky. Hort. Soc. Tr. f. '29, 203.

Watson & Burgess, Citrus Industry 3; 3, 10, 1922.

- Amer. Agr. Ref. No. Mar. 2, 1929, 12.  
 Ill. Hort. Soc. Tr. 60, 45-46, 1926.  
 iN. J. C. 174, 1925, 4 p.  
 iN. J. C. 181, 1926, 4 p.  
 iN. J. C. 202, 1927, 4 p.  
 N. J. C. 214, 1928, 4 p.  
 N. Y. St. Hort. Soc. Proc. 70, 253, 1925.  
 Va. Dept. Agr. B. 219, 4-6, 1926.
- Spray calendars and programs—Pears**  
 Caesar et al, Farm. Advoc. 64, 500, '29.  
 iDrain & Roberts, Mass. Ext. Leaf. 100-F, Rev., April, 1927, 2 p.  
 Amer. Agr. Ref. No. Mar. 2, 1929, 13.  
 N. J. C. 215, 1928, 3 p.  
 N. Y. St. Hort. Soc. Proc. 70, 255, 1925.
- Spray calendars and programs—Pecans**  
 Neal, Miss. St. Pl. Bd. Q. B. 7, 8, 1927.
- Spray calendars and programs—Pennsylvania**  
 Fagan, Amer. Fr. Grow. Mag. 45; 2, 36-37, 1925.
- Spray calendars and programs—Plums**  
 iDrain & Roberts, Mass. Ext. Leaf. 100-E, Rev., April, 1927, 2 p.  
 Mann, Cornell Univ. Ext. Serv. Plum Spray Schedule, 1925.  
 Motz, Schneiderhan & Hough, Va. Poly. B. 111, 15, 1929.  
 Pickett & Williams, Kans. C. 125, 11-12, 1926.  
 Roberts, Mass. Ext. Leaf. 100-E, 1927, 2p.  
 Ill. Hort. Soc. Tr. 60, 47-48, 1926.  
 Ind. B. 212, rev. 11-12, 1925.  
 Mass. Ext. Leaf. 100-E.  
 iN. J. C. 182, 1926, 4 p.  
 N. Y. St. Hort. Soc. Proc. 70, 256, 1925.
- Spray calendars and programs—Potatoes**  
 iN. H. Ext. C. 83, 1928, 4 p.
- Spray calendars and programs—Prunes**  
 Barss, Oreg. St. Hort. Soc. Bien. Rept. 19, 81, 1927.
- Spray calendars and programs—Raspberries & blackberries**  
 Motz, Schneiderhan & Schoene, Va. Ext. B. 94, 12, 1925.  
 Motz, Schneiderhan & Hough, Va. Poly. B. 111, 16, 1929.
- Spray calendars and programs—Rio Grande Valley, Texas**  
 Valley Farmer & Citrus Grow. 3; 6, 18-19, 1925.  
 Valley Farmer & Citrus Grow. 3; 10, 18, '25.
- Valley Farmer & Citrus Grow. 3; 11-12, 14-15, 1926.
- Spray calendars and programs—Rocky Mountain District**  
 Morris, Amer. Fr. Grow. Mag. 45; 2, 32, '25; 46; 2, 42, '26; 47; 2, 36-37, '27; 48: 2, 30-31, '28; 49, 18, '29.  
 Morris, Amer. Prod. Grow. 4; 7, 6-7, '29.
- Spray calendars and programs—Satsuma orange**  
 Clayton, Fla. Ext. B. 41, 16, 1925.
- Spray calendars and programs—Shenandoah-Cumberland region**  
 Motz, Amer. Fr. Grow. Mag. 46; 2, 8, '26.  
 Amer. Fruit Grow. 47, 2, 10, 1927.  
 Amer. Fruit Grow. 49, 19, 1929.
- Spray calendars and programs—Southern California**  
 Essig, Amer. Fr. Grow. Mag. 47; 2, 38, '27.  
 Essig, Amer. Fr. Grow. Mag. 48; 2, 32, '28.  
 Hodgson, Amer. Fr. Grow. Mag. 46; 2, 30, 1926.  
 Knight, Amer. Fr. Grow. Mag. 45; 2, 20, 1925.
- Spray calendars and programs—Southeast**  
 Snapp, Amer. Fr. Grow. Mag. 47; 2, 34-35, 1927.
- Spray calendars and programs—Southwest**  
 Lanham, Amer. Fr. Grow. Mag. 46; 2, 17, '26; 47; 2, 32-33, '27; 48: 2, 36-37, '28.  
 Potts, Amer. Fr. Grow. Mag. 45; 2, 14, 1925.  
 Snapp, Amer. Fr. Grow. Mag. 48: 2, 34-35, 1928.  
 Traub, Amer. Fr. Grow. Mag. 49; 2, 24, '29.
- Spray calendars and programs—Strawberry**  
 Motz, Schneiderhan & Schoene, Va. Ext. B. 94, 12, 1925.  
 Motz, Schneiderhan & Hough, Va. Poly. B. 111, 16, 1929.  
 Ill. Hort. Soc. Tr. 60, 51, 1926.
- Spray calendars and programs—Texas**  
 Valley Farmer, 2, 9, 28, 1924.  
 Valley Farmer & Citrus Grower 3; 3, 26, '25.
- Spray calendars and programs—Truck crops**  
 Ensign, Fla. Grow. 36: 9, 10, 1928.  
 Fla. Grow. 37; 9, 14, 1929.

### Spray calendars and programs—Vegetables

Chupp, Amer. Prod. Grow. 4, 6, 6-7, '29.

Davis, Canning Trade 51: 36, 24-28, '29.  
iSanborn & Mooring, Okla. Ext. C. 180,  
rev. 49, 1925.

Mass. Ext. L. 116, 1927, 7 p.

### Spray calendars and programs—Virginia

Amer. Fr. Grow. Mag. 45; 2, 8, 1925.

### Spray calendars and programs—Watermelon

Va. Ext. News 7; 7, 5, 1925.

### Spray—Calyx

Meyer, Mo. Ext. C. 164, April, 1925, 4 p.

Smith, Better Fruit 21: 10, 8, 1927.

### Spray directions for telephone service

Payne, Ark. Ext. C. 136, 1923, 2 p.

### Spray—Dormant

iChambers, Wis. Hort. 16, 72-73, 1926.

Davis, Hoosier Hort. 9, 179, 1927.

Flebut, Blue Anchor 2; 10, 6, 30-31, '25.

Flebut, Blue Anchor 4: 12, 14-15, '27.

Flebut, Blue Anchor 5, 10; 11, 1928.

Flebut, Blue Anchor 6: 11, 8-11, 18, '29.

Flint, Tr. Ill. Hort. Soc. 61, 99-100, '27.

bGreen, Indus. & Eng. Chem. 19: 931-935, Ag. 1927.

Hartzell & Gambrell, N. Y. (Geneva) C. 102, 1928, 4 p.

Hough, Va. St. Hort. Soc. Proc. 33, 129-133, 1928.

Newcomer, Wash. St. Hort. Assoc. Proc. 21, 125-130, 1925.

iNewcomer, Amer. Fr. Grow. Mag. 47; 2, 9, 1927.

Overley & Spuler, Am. Soc. Hort. Sci. Proc. f. 1928, 325-328, 1929.

Pierce, Hoosier Hort. 10, 151, 1928.

Porter, Hoosier Hort. 7, 191-192, 1925.

Porter, Flint & Davis, Hoosier Hort. 10, 5-6, 1928.

Porter, et al, Hoosier Hort. 11, 5-6, '29.  
Revenbergh, Amer. Agr. 155, 212, '25.

Spuler, Wash. St. Hort. Assoc. Proc. 23, 39-44, 1927.

### Spray formulae

Atwood & Van Buren, N. Y. Dept. Farms & Markets C. 292, 1925, 78 p.

Day, Ill. Hort. Soc. Tr. 60, 52-62, 1927.

Long, S. C. Ext. C. 68, 13-14, 1925.

iMotz, Schneiderhan & Hough, Va. Poly. Ext. B. 102, 1928, 30 p.

Roberts & Pierce, Md. St. Hort. Soc. R. 31, 159, 1929.

Snapp, Tenn. St. Hort. Soc. & Beekeepers' Assoc. Proc. 24, 82, 1929.

— Citrus Industry 3: 3, 18, 1922.

— Citrus Industry 3; 4, 18, 1922.

i— Ill. Hort. Soc. Tr. 58, 34-58, 1925.

— Ill. Hort. Soc. Tr. 60, 52-60, 1926.

— Ill. Hort. Soc. Tr. 61, 54-61, 1927.

— Farm Journal 50; 7, 19, 1926.

### Spray Injury

Ballou & Lewis, Ohio St. Hort. Soc. Proc. 59, 174-176, 1926.

Bashore, Rur. N. Y. 85, 517, 1926.

Beach, Hoosier Hort. 11, 36-38, 1929.

Caesar, Canad. Hort. Fruit Ed. 48: 1, 5, '25.

Dutton, Mich. St. Hort. Assoc. R. 58, 47-51, 1928.

Dutton, Mich. St. Hort. Soc. R. 59, 78-80, 1929.

Farley, N. J. St. Hort. Soc. Proc. 50, 99-107, 1925.

Farley, Md. St. Hort. Soc. R. 28, 165-172, '26.

iHaeuseler & Martin, Phytopathology 15, 322, 1925.

Hough, Md. St. Hort. Soc. R. 31, 172-179, 1929.

Kelsall & Herman, Sci. Agr. 7, 207-209, '27.

Kendall, N. H. B. 216, 8-9, 1925.

iRobinson & Hartman, Oreg. B. 226, 1927, 46 p.

Schneiderhan, Va. Poly. B. 245, 30-32, '26.

Shoemaker, Can. Hort. 46, 123, 1923.

Urbahns, Cal. Agr. B. 14, 172-173, 1926.

Woglum, Cal. Fr. Gr. Exch. B. 4, 26-30, '27.

Wright, et al, Pac. Rur. Press 118, 402, '29.

iYoung, & Walton, Phytopathology, 15, 405-415, 1925.

— Better Fruit, 24; 2, 38, 1929.

— Mich. Tech. B. 76, 1926.

### Spray materials

Adams, Del. B. 158, 39, 1928.

Barnes, Amer. Home 1, 410, 1929.

Brittain, N. S. Dept. Nat. Resource B. 12, 132, 1927.

Caesar, Ann. Rept. Ont. Frt. Grow. Assoc. 58, 81-83, 1926.

Caesar et al, Farm Advoc. 60, 444, '25.

iCampbell, Amer. Frt. Grow. Mag. 49; 3, 5, 1929.

- Close, Yakima & Kittitas County,  
Hort. R. f. 1922-25, 29 p.
- Dutton, Mich. Quart. B. 9; 3, 117-120, '27.
- Dutton, Ann. Rept. Ont. Frt. Grow.  
Assoc. 58, 39-49, 1926.
- iDutton, Canad. Hort. Fruit & Tr. ed.  
41, 27, 1928.
- Dutton, Mich. Quar. B. 11, 57-59, 1928.
- Dutton, Penin. Hort. Soc. Trans. 42,  
125-128, 1929.
- iDutton, et al., Mich. Sp. B. 140, 23, '25.
- Ellenwood, Rur. N. Y. 88; 5050, 541-  
542, 1929.
- Gardner, Mich. St. Hort. Soc. R. 59, 51-  
54, 1929.
- Gunderson, Tenn. St. Hort. Soc. Proc.  
24, 46-50, 1929.
- iHood, Hort.—Elementary & Practical  
ed. 3, 1929, 132-150.
- Joseph, Amer. Fr. Gr. Mag. 45, 2, 3, '25.
- Mason, Spraying & Dusting, '28, 539 p.
- Parrott, Mass. Frt. Grow. Assoc. R. 35,  
173-183, 1929.
- Quinn, & Talbert, Mo. C. 167, 9-12, 1928.
- Schneiderhan & Hurt, Rur. N. Y. 84,  
946, 1925.
- Tesche, Pac. Rur. Press, 118, 398-414, '29.
- Van Meter, Flow. Grow. 12, 184, 1925.
- Young, Tenn. Hort. Soc. Proc. 21, 81-  
87, 1926.
- Spray materials—Aluminum sulphate lime  
sulphur**  
Kelsall, N. S. Fr. Grow. Assoc. R. 65,  
71-79, 1929.
- Spray materials—Arsenate of lead**  
Fritzsche, Farmer 47; 31, 8, 1929.  
Hamilton, N. J. R. 47, 209-212, '26-'27.  
— Wis. Hort. 19, 338, 1929.
- Spray materials—Arsenicals**  
ibHartman, Childs & Robinson, Oreg. B.  
242, 1929, 23 p.  
Lipman, N. J. R. 47, 17-18, 1927.
- ibMarcovitch, J. Ec. Ent. 21, 108-114, '28.  
Yetter, S. Dak. St. Hort. Soc. R. 22, 269, '25.
- †**Spray materials—Bordeaux mixture**  
Baker, N. J. Ext. B. 46, June 1, '25, 2 p.  
Brittain, N. S. Dept. Nat. Resource B.  
12, 145, 1927.  
Brooks et al, Fla. B. 204, 513-514, '29.  
Butler, Indust. & Engin. Chem. 15,  
1039-1041, 1923.
- Caesar, Ont. Dept. Agr. B. 325, 4, 1927.
- Carlton, Oreg. Hort. Soc. Ann. Meet.  
40, 143-144, 1925.
- DeLong, J. Ec. Ent. 22, 345-353, '29.
- Duruz, Cit. Leaves 5; 12, 10, 1925.
- Dutton, Mich. St. Hort. Soc. R. f. 1924,  
105-111, 1925.
- Dutton, Peninsula Hort. Soc. Tr. 42,  
125-128, 1929.
- Firor, Ga. Ext. B. 353, 9, 1928.
- Ginsburg, N. J. R. 1926-27, 127-134, '28.
- Goodwin & Martin, J. Agr. Sci. 18, 460-  
477, 1928.
- Gunderson, Tenn. St. Hort. Soc. & Bee-  
keepers' Assoc. Proc. 24, 46-50, 1929.
- Headlee, N. J. St. Hort. Soc. Proc. f.  
1928, 59-61.
- bHolland, Dunbar & Gilligan, J. Agr.  
Res. 34, 677-686, 1927.
- Kaine, Amer. Frt. Grow. 47, 2, 46, 1927.
- Kelsall, Frt. Gr. Assoc. N. S. R. 61, 87,  
96-97, 1926.
- Koier, Va. Dept. Agr. B. 219, 6, 1926.
- Lenfest, Cit. Indus. 6; 7, 16, 1925.
- McCoun, Phytopathology 19: 3, 285-  
293, 1929.
- iMartin, Amer. Prod. Grow. 4; 7, 3, '29.
- Motz, et al, Va. B. 94, 13-14, 1925.
- Neal, Miss. St. Plt. Bd. Quar. B. 7; 1, 8, '27.
- Quinn, Mo. B. 240, 25, 1926.
- bReiner, Oreg. Hort. Soc. Ann. Meet. 40,  
136-142.
- Sanders, Ky. St. Hort. Soc. Tr. 71,  
189-196, 1926.
- Schneiderhan, Va. St. Hort. Soc. Proc.  
33, 105-112, 1928.
- Shear, N. Y. St. Hort. Soc. Proc. 73,  
183-188, 1928.
- Stuart, U. S. F. B. 1064, rev. 24-28, '29.
- Talbert, Am. Soc. Hort. Sci. Proc. 22,  
44-53, 1925.
- Vaughn, Wis. Stencil B. 87, 1927, 2 p.
- Weber, Cit. Indus. 8; 10, 30, 1927.
- Webster, Fla. P. B. 400, 1927, 2 p.
- N. C. Ext. C. 101, Jan. 1926, 4 p.
- N. J. C. 190, 1926, 2 p.
- Va. Ext. News 8; 7, 5, 1926.
- Spray materials—Bordeaux oil emulsion**  
Eyer & Crawford, N. Mex. B. 172, 11, '29.  
McHatton & Firor, Ga. Ext. B. 357, 6, '28.  
Porter, Hoosier Hort. 8, 65, 1926.  
Valley Farmer & Cit Grow. 3; 6, 19, '25.



- Spray materials—C-Em-Die spray**  
Nat. Miller, 34; 10, 46, 1929.
- Spray materials—Calcium sulphide**  
Hurt & Schneiderhan, Va. Poly. Tech. B. 36, 1929, 15 p.  
English, J. Ec. Ent. 18, 513-515, 1925.
- Spray materials—Colloidal clays**  
English, J. Ec. Ent. 18, 513-515, 1925.  
Yothers & Winston, J. Agr. Res. 31, 59-65, 1925.
- Spray materials—Colloidal lead arsenate**  
Curtiss, Iowa R. f. 1927, 35.
- Spray materials—Commercial**  
bStreeter, N. Y. Geneva B. 125, '27, 12 p.
- Spray materials—Home-made vs. Commercial**  
Wilkins, Blue Anchor 5; 1, 3, 28, 1928.
- Spray materials—Compatibility**  
Motz, Schneiderhan & Schoene, Va. Ext. B. 94, 18-19, Jan. 1925.
- Spray materials—Contact poisons**  
Brittain, Proc. Acad. Ent. Soc. 10, 40-41, 1925.  
Trumble, Pa. Dept. Agr. B. 2; 8, 14-18, '25.
- Spray materials—Copper dust**  
bBoyd, N. Y. C. B. 541, 1926, 68 p.
- Spray materials—Copper sulphate**  
Hartzell, Ann. R. Mich. St. Hort. Soc. 57, 15-16, 1927.
- Spray materials—Derrisol**  
Winston, Cit. Indus. 7; 3, 32, 1926.  
— Fla. Ent. 9, 61, 1926.
- Spray materials—Effect on rest period of trees**  
Dutton, Amer. Soc. Hort. Sci. Proc. 21, 176-178, 1924.
- Spray materials—Emulsion—Droplet size**  
Davey, Science 64, 252-253, 1926.
- Spray materials—Emulsions—ease of formation**  
iWoodman, J. Pomol. 4, 95-103, 1925.
- Spray materials—Ferrous sulphate**  
Dutton, Peninsula Hort. Soc. Tr. 18; 5, 128, 1929.
- Spray materials—Field trials, 1925.**  
Shear, N. Y. Hort. Soc. Proc. 71, 145-150, 1926.
- Spray materials—Hydrated lime**  
iStearns & Neiswander, J. Ec. Ent. 22, 657-660, 1929.  
Stearns & Neiswander, Tenn. St. Hort. Soc. & Beekeepers Assoc. Proc. 24, 91, 1929.
- Spray materials—Lime & Sodium fluosilicate**  
Marcovitch, J. Ec. Ent. 21, 436-437, 1928.
- †Spray materials—Lime sulphur**  
Adams, Del. B. 158, 41, 1928.  
Barss & Mote, Oreg. Ext. B. 388, 14-17, '26.  
Bourne, Mass. B. 226, 36-39, 1926.  
Brannon, N. C. R. 50, 111, 1927.  
Chandler, Cit. Leaves, 6; 2, 34, 1926.  
Crawford, N. C. Dept. Agr. B. Jan. 1926, 13.  
deOng, Cal. Cult. 72, 164, 1929.  
Duna, Canada Lumberman 4; 5, 32, '29.  
F. H. B. Ohio Farm. 164, 636, 1929.  
bGinsburg, N. J. B. 468, 2, 1929.  
Goodwin & Martin, J. Agr. Sci. 16, 596-606, 1926.
- ibHeadlee & Ginsburg, N. J. B. 469, 3-15, '29.**  
Kelsall, N. S. Fr. Grow. Assoc. R. 65, 78, '29.  
bList, Colo. B. 352, 3-14, 1929.  
McHatton & Firor, Ga. Ext. B. 357, 3-4, '28.  
Mote, Better Frt. 23; 11, 16, 1929.  
Motz et al., Va. B. 94, 13, 1925.  
Motz, Schneiderhan & Hough, Va. Poly. B. 111, 19-22, 1929.  
Newlin, Walaces Farm. 53, 899, 1928.  
Parrott, Mass. Fruit Grow. Assoc. R. 35, 143-144, 1929.  
Schultz, Amer. Peony Soc. B. 22; 38, 43, '29.  
Snapp, U. S. F. B. 1557, 40, 1928.  
Spittall, Proc. Acad. Ent. Soc. 10, 20-22, 1925.  
Stevenson, Better Fruit, 21, 10, 26.  
Trumble, Pa. Dept. Agr. B. 2; 8, 14, '25.  
Wilkins, Blue Anchor 5; 1, 3, 1928.  
Woglum, Cal. Cit. 11, 167-168, 1926.  
Woglum & LaFollette, Cal. Cit. 11, 396, '26.
- ilWoodhams, Cit. Leaves, 8; 4, 1, 23, 24, '28.**  
Young, Crop Protec. Digest B. 7, 133-143, 1925.  
— N. C. Ext. C. 101, Jan. 1926, 4 p.
- Spray materials—Lime sulphur dry**  
bAbbott, Culver & Morgan, U. S. D. A. B. 1371, 1926, 26 p.  
Ballou & Lewis, Ohio St. Hort. Soc. Proc. 60, 60-68, 1928.  
Beach, Hoosier Hort. 11, 36-38, 1929.  
iCummings, Vt. Ext. C. 49, 1, 1929.  
Motz et al., Va. B. 94, 14-15, 1925.  
— Amer. Fr. Gr. 46:12, 11, 1926.  
— Amer. Fr. Grow. Mag. 47; 2, 22, 1927.

- Canadian Hort. Fruit & Truck ed. 41, 31, 1928.
- Spray materials—Lime sulphur—liquid**  
— Better Fruit, 22; 8, 34, 1928.
- Spray materials—Lime sulphur—self-boiled**  
Farley, N. J. C. 177, 2, 1925.  
— Amer. Fr. Gr. Mag. 46; 5, 14, '26.  
— Successful Farming 23; 12, 46-47, '25.
- Spray materials—Liquids—physics of**  
Woodman, J. Pom. Hort. Sci. 4: 79-84, 95-103, 184-195, 1925.
- Spray materials—Magnesium arsenate**  
Watson, Canning Trade, 51; 26, 71, '29.
- Spray materials—Mixing**  
Andrew & Garman, J. Ec. Ent. 19, 671, '26.  
Brannon, N. C. Ext. C. 153, 7-9, 1925.  
Day, Ill. Hort. Soc. Trans. 60, 52-62, '27.  
Motz, Schneiderhan & Schoene, Va. Ext. B. 94, 13-18, Jan. 1925.  
Robinson, Oreg. C. 68, 1926, 11 p.  
Snapp, Tenn. St. Hort. Soc. & Beekeepers' Assoc. Proc. 24, 82-83, '29.  
— Ill. Hort. Soc. Tr. 59, 52-60, '25.  
— Ill. Hort. Soc. Tr. 60, 52-60, '26.
- Spray materials—Nicotine**  
Brittain, N. S. Fr. Grow. Assoc. R. 61, 1925, 70-72.  
Cummings, Vt. Ext. C. 49, 2, 1929.  
Headlee, N. J. St. Hort. Soc. Proc. f. 1925, 120-121.  
Headlee, N. J. St. Hort. Soc. Proc. f. 1928, 54-57.  
Huckett, N. Y. Geneva C. 80, 5-6, '25.  
Motz, et al., Va. B. 94, 16, '25.  
Park, Farm & Ranch Rev. 24; 12, 45-46, '29.  
Stearns & Neiswander, Tenn. St. Hort. Soc. & Beekeeper's Assoc. Proc. 24, 91, 1929.
- Spray materials—Nicotine sulfate**  
iBourne, J. Ec. Ent. 22, 680-681, 1929.  
Bourne, Mass. Ext. Leaf 31 rev. 3, 1929.  
deOng, Better Fruit 21: 12, 14, 1927.  
deOng, Cal. Cult. 68, 596, 1927.  
Taylor, Mich. St. Hort. Soc. R. 59, 92-96, 1929.  
Watson, Cit. Indust. 9: 9, 3-4, 9, 25, '28.  
Worthley, J. Ec. Ent. 20, 615-625, 1927.  
Yothers & McBride, Fla. St. Hort. Soc. Proc. 39, 169-170, 1926.
- § Spray materials—Oil**  
Britton, J. Ec. Ent. 21, 418-421, 1928.  
Brock, Cal. Agr. Mo. B. 18, 572-573, '29.  
Burroughs, Mich. Hort. Soc. R. 54, 62-70, 1925.  
Chandler & Porter, J. Ec. Ent. 18, 553, '25.  
Chandler et al, Ill. Nat. Hist. Surv. B. 16, Art. 2, 103-126, 1927.  
Cory, Del. Agr. B. 18: 5, 109-110, 1929.  
Evans, Agr. J. Brit. Colum. 10: 4, 5, 19, '25.  
iEvans, B.C. Dept. Agr. c. 68, '27, 11 p.  
Farrar, Ill. St. Hort. Soc. Tr. 63, 256-261, 1929.  
Fisher, Green & Newcomb, Science 67, 560, 1928.  
Flint, Ind. Hort. Soc. R. f. 1924, 15-22, '25.  
Frost, Penn. St. Hort. Assoc. Proc. f. 1925, 66-70, 1926.  
Frost, Pa. B. 230, 40, 1928.  
Ginsburg, N. J. R. 47, 206-208, 1927.  
Ginsburg, N. J. R. f. 1926-27, 133, 1928.  
Ginsburg, N. J. R. 50, 173-174, 1929.  
Grady, Iowa St. Hort. Soc. Tr. 63, 21-25, 1928.  
Graham, Assoc. Offic. Agr. Chemists J. 8, 333-343, 1925.  
Gray & deOng, Indust. & Engin. Chem. 18, 175-180, 1926.  
Griffin & Richardson, J. Ec. Ent. 19, 522-525, 1926.  
Hartzell, N. Y. St. Hort. Soc. Proc. 73, 22-30, 1928.  
Hawley, Utah B. 196, 1926, 15 p.  
Hoppert, Neb. St. Hort. Soc. Ann. R. f. 1927, 110-112.  
Houser, Nat. Shade Tree Conf. Proc. 5, 42-44, 1929.  
Hungerford, Ida. B. 160, 22-23, 1928.  
Kelley, Amer. Soc. Hort. Sci. Proc. 23, 321-325, 1926.  
Linfield, Mont. R. 35, 35-36, 1929.  
Lipman, N. J. R. 47, 18, 1927.  
Melandar, J. Ec. Ent. 18, 681-686, 1925.  
Melandar, Spuler & Green, Wash. B. 197, 1926, 19 p.  
Melandar, Spuler & Green, Wash. R. 36, 22, 1926.  
Merrin, Fla. St. Hort. Soc. Proc. f. 1929, 219-224.  
Morris, Cal. Cult. 68, 649, 1927.  
Motz, Schneiderhan & Hough, Va. Poly. B. 111, 22-25, 1929.

**Spray materials—Oil Cont'd**

- Newcomer, Wash. St. Hort. Assoc. Proc. 21, 125-132, 1927.  
 Nixon, Cal. Fruit Grow. Exch. B. 3, 15, '26.  
 Parker, Mont. Hort. Soc. Proc. 29, 129-135, 1927.  
 Parrott, N. Y. Hort. Soc. Proc. 71, 166-169, 1926.  
 bRegan, J. Ec. Ent. 19, 86-94, 1926.  
 Regan, Results Insecticides Codling Moth 1927, 14.  
 Regan, Wash. St. Hort. Assoc. Proc. 23, 64-73, 1927.  
 Ross, Ont. Fruit Grow. Assoc. 59, 7-10, '27.  
 Ross, Ont. Fruit Grow. Assoc. R. 60, 33-36, 1929.  
 Shear, Proc. N. Y. St. Hort. Soc. 72, 146-148, 1927.  
 Sievers, U. S. D. A. Tech. B. 16, 1928, 36 p.  
 Smith, Cal. Cit. 13: 6, 201, 1928.  
 Smith, Citrus Leaves 8: 3, 7-8, 1928.  
 Smith, Cal. Cit. 14, 434, 1929.  
 Smith, Cit. Leaves 9: 8, 7, 1929.  
 Smith, J. Ec. Ent. 22, 929-934, 1929.  
 Spuler, Wash. B. 229, 27, 1928.  
 Spuler, Wash. B. 237, 28-29, 1929.  
 Talbert, Proc. Amer. Soc. Hort. Sci. 24, 164, 1927.  
 Urbahns, Cal. Agr. Mo. B. 14, 173, 1926.  
 Vickery & Browne, Handbk. Pest Control Sec. 1-A, 1-25; Sec. 1-B, 1-6; Sec. 1-C, 1-6; Sec. 1-D, 1, 1929, Sec. 7, 1, '29.  
 Volck, Oreg. Hort. Soc. R. 18, 61-63, '26.  
 Wakeland, Ida. B. 137, 1925, 11 p.  
 Wakeland, Ida. St. Hort. Soc. Proc. 34, 69-88, 1929.  
 Watson, Cit. Indust. 9: 10, 21-22, 1928.  
 Webster, Wash. B. 222, 23, 1927.  
 Wilcomb, Citrus Leaves 9: 8, 14, 1929.  
 Woglum, J. Ec. Ent. 19, 732-733, 1926.  
 Yothers & McBride, Fla. St. Hort. Soc. Proc. f. 1929, 193-216.  
 — Cal. Agr. Mo. B. 18, 572-573, '29.  
 — Ida. B. 149, 29, 1927.  
 — Ida. B. 164, 30, 1929.  
 — Miss. St. Plant Bd. Quar. B. 8: 3, 14, 1928.  
 — N. H. B. 232, 33, 1928.

**Spray materials—Oil—Tracheal penetration**

- Nelson, Crop. Protect. Digest 12, 632-635, 1926.

- bNelson, J. Ec. Ent. 20, 632-635, 1927.  
 Ginsburg, N. J. Mos. Exterm. Assoc. Proc. 16, 50-61, 1929.

**Spray materials—Oil—Creosote oil spray**

- Bishop, Idaho Farm. 44, 199, 1929.

**†Spray materials—Oil Emulsion**

- Berger, Cit. Indust. 6: 4, 22, 1925.  
 iChandler, Flint & Huber, Ill. Nat. Hist. Surv. B. 16, 103-126, 1926.  
 Cory, Md. St. Hort. Soc. R. 29, 188, '27.  
 Crawford, N. C. Dept. Agr. B. Jan. 1926, 14 p.  
 Davidson, J. Ec. Ent. 22, 226-234, 1929.  
 Davis, Amer. Fr. Gr. Mag. 46, 4, 44, '26.  
 Davis, et al J. Ec. Ent. 20, 229-235, 1927.  
 deOng, Knight & Chamberlin, Hilgardia 2, 364-370, 1927.  
 Drew, Cit. Ind. 9: 6, 16, 1928.  
 Drew, Fla. St. Hort. Soc. Proc. 41, 48-53, 1928.  
 ibEnglish, Ill. Nat. Hist. Surv. B. 17, 235-259, 1928.  
 Eyer & Crawford, N. Mex. B. 172, 12, 1929.  
 Fitch, Tr. Iowa Hort. Soc. 62, 311-312, '27.  
 Graham, Jl. Assoc. Off. Agr. Chem. 4, 333-343, 1925.  
 Graham, J. Assoc. Off. Agr. Chem. 9, 127-137, 1926.  
 Graham, J. Off. Chem. 10, 157-165, '27.  
 Harman, N. Y. (Geneva) C. 111, 9, 1929.  
 Hodgkiss, Penn. St. Hort. Soc. Proc. f. 1926, 21-22, 26-27.  
 Huber, J. Ec. Ent. 18, 547-548, 1925.  
 Isely, Ark. Ext. C. 164, rev. May 1926, 2 p.  
 Kelsey, Amer. J. Sci. 18, 361-362, 1929.  
 Lenfest, Citrus Indust. 7: 9, 26, 1926.  
 Lenfest, Cit. Indust. 6: 4, 34, 1925.  
 iLevis, Blue Anchor 6: 4, 25, 1929.  
 Longley, Ida. B. 157, 1928, 24 p.  
 McGregor, Cal. Fr. Grow. Exch. B. 5, 30-32, 1928.  
 Motz, et al, Va. Ext. B. 94, 16-17, 1925.  
 Norris, Oreg. Hort. Soc. Ann. Meet. 40, 145-151, 1925.  
 Parker, Fert. Feed. Stuffs & Farm Supplies, J. 12: 1, 7-8, 1927.  
 Parrott, Proc. N. Y. Hort. Soc. 72, 12-13, 1927.  
 Richardson & Griffin, J. Ec. Ent. 19, 525-527, 1926.  
 Sanders, J. Ec. Ent. 18, 287-292, 1925.  
 Smith, Cal. Cit. 13, 358, 1928.

- Smith, Cit. Leaves, 8; 3, 7-8, 1928.  
 Stearns, N. J. R. 47, 195-196, 1927.  
 Sundquist, Better Fruit 23; 10, 5-7, '29.  
 Talbert, Iowa Hort. Soc. Trans. 60, 94-102, 1925.  
 Woodman, J. Phys. Chem. 33, 88-94, 1929.  
 Yothers & Winton, J. Agr. Res. 31, 59-65, 1925.  
 Yothers, et al J. Ec. Ent. 19, 407-411, 1926.
- Spray materials—Oil emulsion—Cold Mix**  
 Harman, N. Y. (Geneva) Circ. 111, 10, '29.  
 Talbert, Amer. Soc. Hort. Sci. Proc. 21, 351-358, 1924.  
 Yothers, J. Ec. Ent. 18, 545-546, 1925.  
 — Va. Ext. Div. News 8; 5, 5, 1926.
- Spray materials—Oil emulsions—Effect of electrolytes**  
 Tartar, et al, J. Phys. Chem. 33, 435-446, 1929.
- Spray materials—Oil—Fish oil**  
 Dozier, Del. B. 158, 19, 1928.  
 Hood, J. Ec. Ent. 18, 280-281, 1925.
- Spray materials—Oil—Kayso oil**  
 Eyer & Crawford, N. Mex. B. 172, 6, '29.
- Spray materials—Oil—Kerosene emulsion**  
 Brittain, N. S. Dept. Nat. Resource B. 12, 140, 1927.  
 Essig, Calif. Cult. 68, 647, 1927.  
 McHatton & Firor, Ga. Ext. B. 357, 8-9, '28.  
 Trumble, Pa. Dept. Agr. B. 8: 2, 16, '25.
- Spray materials—Oil—Larkspur emulsion**  
 Davidson, J. Ec. Ent. 22, 226-234, '29.
- Spray materials—Oil—Larvides**  
 Clarkson, So. Med. J. 22, 397-398, '29.  
 Cole, Soap, 5; 2, 95, 1929.  
 Curry, Proc. Med. Assoc. Isth. Canal Zone, 15, 39-44, 1927.  
 Green, Am. J. Pub. H. 15, 219-222, Mar. '25.  
 H. Q. Dairy Farm. 23; 18, 23, 1925.  
 Hardenbergh, So. Med. J. 20; 6, 465-467, 1927.  
 McFarland, J. Amer. Med. Assoc. 91, 2014, 1928.  
 iPeterson & Ginsburg, N. J. Mos. Extern. Assoc. Proc. 16, 92-101, '29.  
 Randoms, Engin. & Contracting (Water-Works) 63, 96, Ja. 14, 1925.  
 Wetmore, J. Am. Med. Assoc. 87, 1298, '26.  
 U. S. Nav. Med. B. 24, 169, 1925.
- Spray materials—Oil—Linseed oil emulsified with sodium oleate**  
 Lipp, J. Ec. Ent. 22, 594, 1929.
- Spray materials—Oil—Lubricating oil**  
 Brannon, N. C. Ext. C. 153, 8, 1926.  
 Brittain, N. S. Dept. Nat. Resource B. 12, 140-141, 1927.  
 Burroughs, Better Fruit 19, 11, Feb. '25.  
 Caesar, Ont. Dept. Agr. B. 325, 3, 1927.  
 Green, Indus. & Eng. Chem. 19, 931-935, 1927.  
 Hartzell & Gambrell, N. Y. Gen. C. 98, 1928, 4 p.  
 Isley, Ark. Ext. C. 164 rev. May '26, 2 p.  
 McHatton & Firor, Ga. Ext. B. 357, 5-6, '28.  
 Motz et al, Va. Ext. B. 94, 17, 1925.  
 Porter, Mich. Hort. Soc. R. 54, 116-122, '25.  
 Porter, Proc. N. Y. Hort. Soc. 72, 26-37, '27.  
 iRoss, Canad. Hort. Fr. & Truck ed. 51, 2, 25-26, 1928.  
 Ross, Internat. Cong. Ent. 4, Tr. 2, 397-400, 1929.  
 Snapp, Ga. Hort. Soc. Proc. 50, 54-55, '26.  
 Snapp, U. S. F. B. 1557, 40, 1928.  
 Snapp, Tenn. St. Hort. Soc. Proc. 24, 68-70, 1929.  
 Spuler, Wash. St. Hort. Assoc. Proc. 23, 39-44, 1927.  
 Talbert, Amer. Fr. Grow. Mag. 47; 2, 14, 1927.  
 Trimble, Pa. Dept. Agr. B. 8; 2, 14, '25.  
 Yothers & McBride, Internat. Cong. Ent. 4, Tr. 2, 165-174, 1929.  
 — Cal. R. 1924-25, 52, 1926.
- Spray materials—Oil—Mineral oil & well water**  
 Yothers & Watson, Cit. Indus. 6; 2, 6-7, '25.  
 Yothers & Winston, USDAB 1217, '24, 5p.
- Spray materials—Oil—Miscible oils**  
 Cleveland, Tr. Iowa Hort. Soc. 62, 33-38, 1927.  
 Fernald & Bourne, Mass. B. 247, 317, '29.  
 Greeves-Carpenter, Country Gentl. 90; 14, 36, 1925.  
 iHart, Indus. & Engin. Chem. 21; 1, 85-90, 1929.  
 Snapp & Swingle, J. Ec. Ent. 22, 824, '29.
- Spray materials—Oil—Oil spray vs. lime sulphur**  
 Ragan, Ida. St. Hort. Soc. Proc. 31, 49-57, 1926.
- Spray materials—Oil—Petroleum**  
 bdeOng, J. Ec. Ent. 19, 733-745, 1926.  
 deOng, Wash. St. Hort. Assoc. Proc. 22, 47-53, 1926.

- Spray materials—Oil—Petroleum Cont'd**  
 deOng, Cal. Cult. 68, 652, 1927.  
 ibdeOng, Knight & Chamberlin, Hilgardia (Cal.) 2, 351-384, 1927.  
 deOng, Am. Petroleum Inst. B. 7, 191-195, 1928.  
 deOng, Indus. & Engin. Chem. 20, 826-827, 1928.  
 deOng, Internat. Cong. Ent. 4, Tr. 2, 145-154, 1929.  
 bGriffin, Richardson, & Burdette, J. Agr. Res. 34, 727-738, 1927.  
 Hoerner, Ind. B. 310, 449-466, 1929.  
 Inman, Indus. Engin. Chem. 21, 542-543, 1929.  
 Inman, Indus. & Engin. Chem. 21, 647-648, 1929.  
 ibKnight, Chamberlin & Samuels, Plant Physiol. 4, 304-321, 1929.  
 Marshall, Cal. Dept. Agr. Sp. Pub. 94, 45-59, 1929.  
 Wagner, Nat. Petroleum News 17, 117-118, 1925.  
 Herman, Quebec Soc. Protec. Plants R. 21, 15-16, 1929.
- Spray materials—Oil—Pine oil emulsion**  
 Cory, Md. B. 298, 195-196, 1928.
- Spray materials—Oil—Sunoco oil**  
 Hitchings, N.Y. Hort. Soc. R. 57, 81-89, '27.
- Spray materials—Oil Triethanolamineoleate**  
 Hockenyoos, Ind. & Eng. Chem. 21, 647-648, 11, 1929.
- Spray materials—Pyrethrum soap**  
 Franklin, Mass. B. 247, 314, 1929.  
 Nissley, Country Gentlm. 93; 4, 50, '28.  
 Twinn & Herman, Ont. Ent. Soc. R. 58, 43-44, 1928.
- Spray materials—Red arrow insect spray**  
 — Nat. Nurserym. 36; 11, 8, 1929.
- Spray materials—Scalecide**  
 Bourne, Mass. B. 226, 39-40, 1926.
- Spray materials—Selection**  
 Dutton, Mich. Hort. Soc. R. 58, 33-39, '29.
- Spray materials—Soap**  
 Caesar, Ont. Dept. Agr. B. 325, 3, 1927.  
 Parker, Fertilizer, Feeding-Stuffs & Farm Supplies, J. 10, 211-212, 1925.
- Spray materials—Soap nicotine**  
 McDonnell & Nealon, Indust. & Engin. Chem. 16; 8, 819-821, 1924.
- iMcDonnell & Graham, Indus. & Engin. Chem. 21; 1, 70-73, 1929.
- Spray materials—Soda sulphur and oil emulsion**  
 — Valley Farm. & Cit. Grow. 3; 6, 18, '25.
- Spray materials—Sodium chlorate**  
 iStewart, Neb. Farm. 71, 1149 & 1166, '29.
- Spray materials—Sodium oleate**  
 Van Leeuwen, N. J. Dept. Agr. Bur. Sta. & Inspec. C. 92, 1926.
- Spray materials—Standardized**  
 Andrew & Garman, Conn. B. 278, 491-508, 1926.  
 Wilkins, Blue Anchor 5; 1, 3, 28, 1928.
- Spray materials—Sulphate of iron**  
 Dutton, Amer. Fr. Grow. Mag. 49; 2, 3 & 32, 1929.
- Spray materials—Sulphur**  
 bGinsburg, J. Ec. Ent. 20, 625-631, '27.  
 Motz, Schneiderhan & Hough, Va. Poly. B. 111, 19-20, 1929.
- Spray materials—Sulphur lime dry mix**  
 Hammond, Quebec Soc. Protec. Pl. R. 21, 37-38, 1929.  
 Kelsall, Farm. Advoc. 60, 137, 1925.  
 Kelsall, N. S. Frt. Gr. Assoc. R. 61, 100-101, 1925.  
 Petch & Howatt, Quebec Soc. Protec. Plants, R. 21, 39, 1929.  
 Taylor, Quebec Soc. Protec. Plants R. 21, 28-32, 1929.
- iWieder, Cal. Grape Grow. 7; 5, 6, '26.  
 Young, Amer. Fr. Grow. Mag. 49; 2, 4, 5, 31, 1929.  
 — Cal. Citrog. 11, 269, 1926.
- Spray materials—Tests**  
 Adams, Del. B. 141, 28, 1925.  
 Bonquet, Cal. Cult. 68, 651, 1927.
- Spray materials—Volk**  
 Hall, Kans. Ent. Soc. J. 2; 75, 1929.  
 Watkins & Gates, Amer. Flor. 72; 61, 14, 1929.  
 Woglum, Cal. Citrog. 12, 348, 364, '29.
- Spray materials—War chemicals**  
 Brinley, J. Agr. Res. 33, 177-182, '26.
- Spray materials—Why they spread**  
 Thies, Proc. Am. Soc. Hort. Sci. 24, 172-175, 1927.
- Spray residue**  
 Ambruster, J. Franklin Inst. 206, 597-604, 1928.  
 Ballard, C. Gentl. 93; 8, 42, 1928.

- Barnes, Indus. & Engin. Chem. 21, 172-174, 1929.
- iBarnes & Murray, Indus. & Eng. Chem. 21; 11, 1146-1147, 1929.
- iBennett, Mich. Quar. B. 8, 183-185, '26.
- Bourne & Roberts, Mass. Fr. Grow. Assoc. R. 34, 101-109, 1928.
- Bourne, Mass. B. 247, 317, 1929.
- iBurtner, Amer. Fr. Grow. Mag. 47; 8, 5, 13, 17, 1927.
- Caesar, Ont. Dept. Agr. B. 325, 3, '27.
- Carlson, Chemicals 29; 18, 9, 1928.
- Carter-Mayhew Mfg. Co. Minneapolis, Better Fr. 22, 2, 23, 1927.
- bChilds, Internat. Cong. Ent. 4, Tr. 2, 675-687, 1929.
- Cox, J. Amer. Med. Assoc. 86, 1143-1144, 1926.
- Culpepper & Moon, Canning Age, 9, 461-462, 1928.
- Culpepper & Moon, J. Agr. Res. 39, 31-40, 1929.
- Diehl, Better Fr. 22; 12, 13-14, 1928.
- Diehl & Fletcher, Wash. St. Hort. Soc. Proc. 23, 150-162, 1928.
- Diehl, et al, Wash. St. Hort. Assoc. Proc. 24, 100-111, 1928.
- Diehl, et al, Better Fr. 23; 9, 9-11, '29.
- Diehl, et al, Idaho Hort. Assoc. Proc. 34, 25-33, 1929.
- Diehl, et al, U. S. D. A. C. 59, '29, 19 p.
- Durst, Iowa Hort. Soc. Tr. 61, 62, 1927.
- Eddy, Ohio J. Sci. 27, 198, 1927.
- Ellett & Hill, Va. Poly. R. f. 1919-27, '28.
- Ellett & Miller, Va. Poly. R. f. 1919-27, 142-148.
- Farley, Rur. N. Y. 88, 963, 1929.
- Fletcher, Mass. Fr. Grow. Assoc. R. 34, 180-181, 1928.
- Flint, Trans. Ill. Hort. Soc. 61, 106, '27.
- G. H. H., Cal. Dept. Agr. Mo. B. 17, 435, 1928.
- Ginsburg, N. J. R. 47, 199-206, 1927.
- Griner, Better Fr. 20; 11, 8, 1926.
- iHamilton, J. Ec. Ent. 22, 387-396, '29.
- Hartman, Better Fr. 22; 12, 10-11, '28.
- Hartman, Better Fr. 23; 9, 13-14, '29.
- Hartman, Ill. St. Hort. Soc. Tr. 63, 179-184, 1929.
- Hartman & Robinson, Better Fr. 21, 5-6, Ja. 1927.
- Hartman & Robinson, Better Fr. 21; 7, 5-6, 1927.
- Hartman & Robinson, Cal. Cult. 68, 216, 1927.
- Hartman & Robinson, Farm J. 51; 9, 28-30, 1927.
- Hartman & Robinson, Better Fr. 22; 8, 24, 1928.
- Hartman, Robinson & Zeller, Oreg. B. 234, 1928, 38 p.
- Hartman et al, Oreg. Sp. B. 234, '28, 34 p.
- bHartzell & Wilcoxon, J. Ec. Ent. 20, 204-212, 1927.
- bHartzell & Wilcoxon, J. Ec. Ent. 21, 125-130, 1928.
- Headen, Farm. J. Phila. 51; 4, 16, '27.
- Headlee, N. J. St. Hort. Soc. Proc. f. 1928, 50-54.
- ibHeald, et al, Wash. B. 226, 1928, 100p.
- iHeald et al, Wash. B. 213, 1927, 56 p.
- Heald, Neller & Overley, Better Fr. 22; 12, 15-17, 1928.
- Hearty, N. Y. Hort. Soc. Proc. 71, 201-203, 1926.
- Hebert, Wash. St. Hort. Soc. Proc. 23, 131-142, 1928.
- Hecke, Better Fr. 21; 7, 7, 1927.
- Herman, Quebec Soc. Protec. Plants R. 21, 13-14, 1929.
- Herman & Kelsall, Sci. Ag. 7, 290-291, Ap. 1927.
- Herms, J. Ec. Ent. 20, 30-31, 1927.
- Herrick, Iowa Yrbk. Agr. 28, 243-244, '28.
- Houser & Cutright, Ohio Hort. Soc. Proc. 61, 116-117, 1928.
- Isely, Ark. St. Hort. Soc. Proc. f. '28, 14-24.
- Johnson, Better Fr. 21; 8, 10, 1927.
- iJones, Amer. Fr. Grow. Mag. 48; 7, 3-4, '28.
- Kelsall & Herman, Sci. Agr. 8; 7, 465-466, 1928.
- Kuhn, Internat. Cong. Ent. 4, Tr. 2, 673-674, 1929.
- McClintock, Tenn. St. Hort. Soc. & Beekeepers' Assoc. Proc. 24, 45, '29.
- McLean, N. J. Hort. Soc. Proc. f. 1928, 148-156, 1929.
- McLean, Proc. N. J. St. Hort. Soc. 53, 213-225, 1928.
- McLean, N. J. Agr. 11, 10, 1929.
- MacLeod, et al, J. Ec. Ent. 20, 607-614, '27.
- Magness, Wash. St. Hort. Assoc. Proc. 23, 121-125, 1927.

Spray residue *Cont'd*

- Magness, et al, Wash. Pop. B. 142, '28, 29 p.  
 bMogendorff, N. J. B. 419, 1925, 47 p.  
 iNeller, Wash. St. Hort. Soc. Proc. 22, 28-37, 1926.  
 Nixon, Cal. Fr. Gr. Exch. B. 3, 15-16, '26.  
 O'Kane, Cal. Dept. Agr. Mo. B. 18, 464, '29.  
 Overley, Wash. B. 222, 37-38, 1927.  
 Overly & Neller, Proc. Wash. St. Hort. Assoc. 23, 126-130, 1928.  
 Overly et al, Wash. St. Hort. Soc. Proc. 24, 93-99, 1928.  
 Pentzer, et al, Wash. St. Hort. Assoc. Proc. 23, 176-179, 1927.  
 Pettet, Internat. Cong. Ent. 4, Tr. 2, 382-388, 1929.  
 Porter, Tr. Ky. St. Hort. Soc. 72, 134-135, 1927.  
 Potts, Better Fr. 21; 4, 11, 1926.  
 Potts, Better Fr. 21; 7, Mr. 1927.  
 Potts, Better Fr. 22; 1, 7, 1927.  
 Quaintance, et al, J. Wash. Acad. Sci. 17, 404-406, 1927.  
 Racicot, Quebec Soc. Protec. Pl. R. 20, 64-66, 1929.  
 Regan, Wash. St. Hort. Assoc. Proc. 23, 67-68, 1927.  
 Roberts, Mass. B. 247, 335, 1929.  
 Robinson, Better Fr. 22; 12, 12, 1928.  
 bRobinson, Indus. & Eng. Chem. 21; 11, 1133-5, 1929.  
 bRobinson, J. Ec. Ent. 22, 693-698, '29.  
 Robinson & Hartman, Wash. St. Hort. Assoc. Proc. 22, 94-105, 1926.  
 iRobinson & Hartman, Oreg. B. 226, Feb. 1927, 46 p.  
 Robinson & Hartman, Oreg. St. Bd. Hort. Bien. R. 19, 116-119, 1927.  
 Ross, Sci. Ag. 7, 395, Je. 1927.  
 Shear, Proc. N. Y. Hort. Soc. 72, 149-151, 1927.  
 Shear, Vt. St. Hort. Soc. R. 22, 72-74, '28.  
 bShear, N. Y. Gen. B. 575, 1929, 34 p.  
 Smyth, Nat. Health 9; 5, 24-26, 1927.  
 Stevenson, Canning Trade, 49; 27, 88, '26.  
 Streeter & Harman, N. Y. Gen. B. 579, 1929, 12 p.  
 Symons, Md. Univ. Ext. R. 12, 52, '26.  
 Thompson, Blue Anchor, 5; 11, 16-31, '28.  
 Thompson, Blue Anchor 5, 16, 31, 1928.  
 Thompson, Cal. Cult. 71, 496-497, '28.

- Thompson, Cal. Dept. Agr. Mo. B. 16, 726-727, 1928.  
 Vincent, Wash. St. Hort. Assoc. Proc. 23, 115-121, 1927.  
 Vreeland, Agr. Insecticide Assoc. B. 6, 24-26, 1927.  
 Wharton, N. J. St. Hort. Soc. Proc. 51, 85-97, 1925.  
 iWilcox, C. Gentl. 91; 5, 21, 1926.  
 Womack, Blue Anchor 6; 5, 18-19, '29.  
 — Agr. Insect. & Fung. Mfg. Assoc. B. 5, 22-29, 1926.  
 — Amer. Agr. 122; 20, 648, 1928.  
 — Am. J. Pub. Health, 16, 403, '26.  
 — Better Fr. 21; 8, 22, 1927.  
 — Better Fr. 22; 2, 21, 1927.  
 — Better Fr. 22; 8, 19, 1928.  
 — Cal. Cult. 69, 151, 1927.  
 — Cal. Cult. 73, 360-361, 1929.  
 — Cal. Dept. Agr. Mo. B. 17, 294, '28.  
 — Cal. Agr. Mo. B. 17, 467, 1928.  
 — Cal. Dept. Agr. Mo. B. 18, 363, '29.  
 — Cal. Fr. News 74; 2003, 3, 1926.  
 — Cal. Fr. News 79; 2133, 9, 1929.  
 i— Canadian Hort. Fr. & Tr. ed. 41, 31, 1928.  
 — Cit. Leaves, 6; 2, 30, 1926.  
 — Colo. Ext. News Notes 826, 1925.  
 — Farm J. 51; 3, 16, 1927.  
 — Oreg. Farm. 49, 133, 1929.  
 — Rur. N. Y. 88, 1034, 1929.

Spray rings, *see* Spraying and dusting—Cooperative

## Spray service

- Bourne, Amer. Fr. Grow. Mag. 49; 8, 9, '29.  
 Burritt, Amer. Agr. 117, 540, 1926.  
 Caesar, Canad. Hort. Fr. & Truck ed. 1; 2, 29, 1927.  
 Cardinell, Mich. St. Hort. Assoc. R. 58, 52-56, 1928.  
 Crosby, N. Y. St. Hort. Soc. Proc. 70, 172-174, 1925.  
 Engle, Ohio St. Hort. Soc. Proc. 59, 37-42, 1926.  
 iFromme, Am. Fr. Grow. 49, 5, 1929.  
 Goss, Neb. St. Hort. Soc. Ann. R. f. '26, 95-99.  
 Goss, Ann. R. Nebr. St. Hort. Soc. f. '27, 95-99.  
 Gossard, Ohio St. Hort. Soc. Proc. 58, 73-75, 1925.

- Leonard, N. Y. St. Hort. Soc. Proc. 70, 87-90, 1925.
- Magill, Ky. Hort. Soc. Tr. f. 1929, 147-157, 1929.
- Mann, N. Y. Gen. R. 37, f. 1924, 80-81, '25.
- Martin, Ont. Dept. Agr. R. f. '28, 67-70, '29.
- Motz, Tr. Ky. St. Hort. Soc. 70, 160-166, 1925.
- Motz, Schneiderhan & Schoene, Va. Ext. B. 94, 1925, 21 p.
- iMotz, Schneiderhan & Hough, Va. Poly. Ext. B. 102, 1928, 30 p.
- Motz et al, Va. Ext. B. 111, 1929, 30 p.
- Pierstorff, Ohio Hort. Soc. Proc. 61, 80-83, 1928.
- Pierstorff, Ohio St. Hort. Soc. Proc. 63, 80-83, 1928.
- Pierstorff, Ohio St. Hort. Soc. Proc. 62, 86-88, 1929.
- Schneiderhan, Ky. Hort. Soc. Tr. f. '29, 143-147.
- Young, Ohio B. 431, 54-55, 1929.
- Bur. Farm. 4; 11, Pa. Farm. Bur. News, 4; 6, July 1929, 19.
- J. Agr. & Hort. 31, 115, 1928.
- N. H. B. 238, 26, 1929.
- Spray service school—Penn.**
- Kern, Bur. Farm. 3; 8, Pa. Farm. Bur. News 3; 3, 31, 1928.
- Mich. Farm. 73, 455, 1929.
- Spray spreaders & Stickers**
- Brittain, N. S. Dept. Nat. Resource B. 12, 149-150, 1927.
- iDozier, J. Ec. Ent. 22, 140-144, 1929.
- Ginsburg, N. J. R. f. 1926-27, 130, '28.
- Goodwin & Martin, J. Agr. Sci. 15, 476-489, 1925.
- ilHamilton, Md. Hort. Soc. R. 27, 142-148, 1924.
- ibHood, U. S. D. A. B. 1439, 1926, 21 p.
- Jardine, Oreg. Bien. Rept. '24-'26, 96-97.
- bRobinson, J. Agr. Res. 31, 71-81, 1925.
- Smith, Wash. St. Hort. Assoc. Proc. 21, 83, 1925.
- Stearns, et al, J. Ec. Ent. 18, 413, '25.
- Del. Ext. C. 12, 7, 1923.
- Iowa R. 27, 142-148, 1924.
- Success Farm, 23; 12, 39, 1925.
- Spray tolerance regulations fixed**
- Potts, Better Fr. 21; 9, 7, 19, 1927.
- §Spraying**
- Ballou & Lewis, Ohio Hort. Soc. Proc. 61, 61-70, 1928.
- Bliss, Iowa St. Hort. Soc. Trans. 59, 134, '25.
- Brooks, Fla. Dept. Agr. Quar. B. 39; 3, 35-36, 1929.
- Cardinell, N. J. Hort. Soc. Proc. 51, 175-181, 1925.
- Cardinell, Mich. Hort. Soc. R. 58, 52-55, 1929.
- Childs, Ida. St. Hort. Assoc. Proc. 24, 88-95, 1924.
- Clinton et al., Conn. Bul. Immed. Inf. 31, 1924, 2 p.
- Cory, Md. Agr. Soc. R. 8, 221, 1924.
- iDarrow, Conn. Ext. B. 119, 1928, 16 p.
- de Ong, J. Ec. Ent. 18, 722-726, 1925.
- Dudley, N. Y. St. Hort. Soc. Proc. 73, 119-122, 1928.
- Durst, Iowa Hort. Soc. Tr. 61, 60-61, '27.
- Dutton, Ann. Rept. Ont. Frt. Grow. Assoc. 58, 62-75, 1926.
- Dutton, Amer. Frt. Grow. Mag. 49; 3, 20-21, 1929.
- Ensign, Fla. Grow. 33; 11, 28-29, 1926.
- Favor, Citrus Indust. 3; 2, 21, 1922.
- Frane, Proc. N. Y. Hort. Soc. 72, 104-106, 1927.
- Haeuseler & Martin, Phytopathology 15, 326-327, 1925.
- LaFollette, Cal. Cit. 9, 324, 1925.
- McMunn, Ill. Hort. Soc. Tr. 60, 127-130, 1926.
- Melander, Ida. Hort. Assoc. Proc. 24, 102-110, 1924.
- iMotz, Schneiderhan & Hough, Va. Poly. B. 111, 1929, 30 p.
- Parrott, Amer. Fr. Grow. Mag. 49; 3, 11, 1929.
- Parrott, Mich. St. Hort. Soc. R. 59, 80-88, 1929.
- Parrott, N. Y. St. Hort. Soc. Proc. 74, 27-39, 1929.
- Phipps, Me. Ext. C. 100, 1929, 6 p.
- Sherman, N.C.R. 47, 69, 1925.
- Slaughter & Dade, Citrus Indust. 3; 9, 5, '22.
- Stoddard, Conn. Pomol. Soc. Proc. 36, 20-27, 1927.
- Street, Ind. Hort. Soc. Tr. f. 1928, 14-19.
- bTalbert, Proc. Amer. Soc. Hort. Sci. 22, 44-53, 1925.



‡*Spraying Cont'd*

Talbert, Proc. Amer. Soc. Hort. Sci. 24, 164-167, 1927.

Vickery & Browne, Hdbk., Pest Control, Sec. 8, 1-21, 1929.

Woglum, LaFollette & Landon, Cal. Fr. Grow. Exch. B. 5, 5-7, 1928.

iWoodhams, Citrus Leaves 8; 8, 6-7, '28.

Yocum, Neb. Hort. Soc. R. f. 1929, 51-57.

§*Spraying—Aphids*

Cutright, Ohio St. Hort. Soc. Proc. 59, 102-109, 1926.

Dodds, Cal. Cit. 12, 181, 1927.

Luckett, Country Gentl. 91; 3, 113, '26.

Fruit Belt 22: 6, 5, 1924.

‡*Spraying apparatus*

Anderson, Hoosier Hort. 8; 4, 55-59, '26.

Caesar, Farmer's Advoc. 60, 420, 1925.

iCaesar, Ont. Dept. Agr. B. 325, 5, '27.

Carpenter, Md. Agr. Soc. R. 13, 166-171, 1928.

Clark, Amer. Fr. Grow. Mag. 47; 3, 20, '27.

Cummings, Vt. Ext. C. 49, 2, 1929.

iDeitz, Ind. Educ. Mag. 29, 468, Je. '28.

iEddy & Clarke, S. C. B. 258, 36-41, '29.

Fultz & Finchum, Ind. Hort. Soc. Tr. 64, 139-141, 1925.

iHough, Va. B. 260, 1928, 12 p.

Mack, Power F. 34, 7, Mr. 1925.

MacLeod, Penn. St. Ext. C. 122, 9-10, '29.

iMason, Spraying, 8-12, 1928.

iMetcalf & Flint, Dest. & Usef. Ins. 278-297, 1928.

Newcomer, Internat. Cong. Ent. 4, Tr. 2, 567-570, 1929.

Nixon, Amer. Potato J., 3, 352, 1926.

Nolen, Amer. Nut. J. 30, 65, 1929.

iPierstorff & Gross, N. J. Ext. B. 67, '28, 11 p.

Pierstorff, Am. Frt. Grow. 49, 7, D, '29.

Quinn & Talbert, Mo. C. 167, 8-9, '28.

Schneiderhan, Ky. St. Hort. Soc. Tr. f. 1929, 124-127.

iSherwood, Amer. Fr. Gr. Mag. 45; 2, 4, '25.

iSnapp, U. S. F. B. 1557, 38-39, 1928.

iAviation, 18, 573, My 25, 1925.

— Cal. Dept. Agr. Mo. B. 17, 44-45, '28.

il— Ind. Hort. Soc. R. f. 1924; 139-141, '25.

— Rur. N. Y. 85, 1037, Jl, 24, 1926.

‡*Spraying—Apple*

Boyd, Tr. Iowa Hort. Soc. 62, 171-173, '27.

Clinton & Zappe, Conn. B. Immed. Inf. 33, 1924, 2 p.

Crawford, N. C. Dept. Agr. B. Jan. '26, 11.

Cutright, Ohio St. Hort. Soc. Proc. 60, 185, 1928.

Dusham, Pa. B. 230, 40, 1928.

Dutton, Mich. Hort. Soc. R. 54, 105-111, 1925.

Dutton, Mich. St. Hort. Soc. R. 57, 130-142, 1927.

Ellenwood, Ohio B. 431, 84-85, 1929.

Filinger, Kans. St. Hort. Soc. Tr. 38, 17-21, 1926.

Flint, Trans. Ill. Hort. Soc. 61, 469-473, '27.

Folsom, Me. B. 333, 145-204, 1926.

bFolsom & Ayers, Me. B. 348, 145-176, '28.

Gray, Ark. B. 215, 56, 1926.

Hamilton, Md. B. 264, 199-203, 1924.

Hodgkiss, Penn. St. Hort. Soc. Proc. f. 1926, 27-28.

Hoppert, Neb. Hort. Soc. R. f. 1928, 83-88.

Hough, Md. Agr. Soc. R. 13, 172-179, '28.

bHowlett & May, Phytopathology, 19,

1001-1007, 1929.

Ladd, N. Y. Gen. Ext. (Leaf) 1020.

iLathrop & Moore, S. C. Ext. C. 61, '25, 4 p.

Merchant, Me. B. 339, 180-182, 1927.

Parrott, N. Y. St. Hort. Soc. Proc. 73,

10-14, 1928.

Sanders, Ky. St. Hort. Soc. Tr. f, 1926,

188-198.

iSears, Mass. Ext. Leaf, 68 rev. '26, 12 p.

Symons, Md. Ext. Inform. Cd. 10, '25.

iThurston & Sudds, Rur. N. Y. 88, 571, '29.

Whitcomb, Mass. B. 249, 43-49, 1929.

Williams, Ohio B. 382, 37, 1924.

Zappe & Stoddard, Conn. B. 294, 256-

261, 1928.

— Ill. Hort. Soc. Tr. 60, 131-133, '26.

i— Ind. Ext. B. 80, (5th. rev.) '29, 12 p.

— N. H. Ext. C. 76, 1928, 4 p.

i— N. H. Ext. P. B. 140, 1925, 2 p.

— N. J. C. 209, 1928, 4 p.

— N. J. C. 213, 1928, 3 p.

— Pa. B. 243, 29, 1929.

§*Spraying—Apricots*

— Cal. Cult. 66, 311, 1926.

— Cal. Frt. News 73; 1962, 14, 1926.

§*Spraying—at night*

iCardinell, Am. Frt. Grow. 49, 8, 1929.

§*Spraying—Beans*

Gillette, Colo. Ent. C. 47, 56-57, 1925.

Tissor, Fla. Grow. 37; 11, 33, 1929.

**Spraying—Bindweed**

Stewart, Neb. Farm. 71, 1149, 1166, '29.

**Spraying—Bush fruits**

— Cal. Cult. 70, 163, 1928.

**Spraying—Cabbage**

Rapp. C. Gent. 91; 6, 41, 1926.

**Spraying—Canada**

Davis, Farm. Advoc. 61, 700, 1926.

**Spraying apparatus—Aeroplane**

iFisher, Power F. 34; 5, N. 1925.

**Spraying apparatus—Barrel Sprayer**

Caesar et al, Farm. Advoc. 60, 420, '25.

**Spraying apparatus—Bucket-pump**

iScoates, S. Rur. 36; 15, 8, 1929.

— Idaho Homestead, 74, 732, 1929.

**Spraying apparatus—Care of**

Burkholder, Amer. Fruit Grow. Mag. 45; 11, 12, 1925.

Caesar et al, Farm. Advoc. 60, 420, '25.

Fairbank, Pac. Rur. Press, 114; 437, '27.

Hough, Md. St. Hort. Soc. R. 30, 236-246, 1928.

North, J. Agr. & Hort. 32, 132, 1928.

**Spraying apparatus—Central plant**

Carpenter, Md. St. Hort. Soc. R. 31, 166-171, 1929.

**Spraying apparatus—Cold steam**

iLeiby, J. Ec. Ent. 20, 281-286, 1927.

iLeiby, Internat. Cong. Ent. 4, Tr. 2, 926-928, 1929.

**Spraying apparatus—Fruit washer**

iHartman, Blue Anchor 6; 8, 10-11, 1929.

**Spraying apparatus—Garden**

— Market Grow. J. 42, 206-207, 210, 1928.

**Spraying apparatus—Gauges**

J. D. L., Cal. Cult. 72, 40-41, 1929.

**Spraying apparatus—Golf greens**

Wilson, U. S. Golf Assoc. Green Sec. B. 5, 33, 1925.

**Spraying apparatus—Grapes**

iFairbank, Ag. Eng. 7; 240, Jl. 1926.

**Spraying apparatus—Hand machine**

Brittain, N. S. Dept. Nat. Resource B. 12, 151, 1927.

**Spraying apparatus—Mouth sprayer**

Foreman, Soap, 2; 12, 73, 75, 77, 1927.

**Spraying apparatus—Oil libetor**

iWetmore, So. Med. J. 31, 769-780, 1928.

**Spraying apparatus—Oliver sprayer**

iFoote, Ariz. Producer, 8; 16, 8, 1929.

**Spraying apparatus—Orchards**

Philip, Amer. Frt. Gr. Mag. 45; 3, 33, '25.

**Spraying apparatus—Ortho sprays**

i— Better Fruit 20; 8, 15, 1926.

**Spraying apparatus—Ospraymo**

— Country Gentlm. 91; 12, 72, 1926.

— Rur. N. Y. 86, 11, 1927.

**Spraying apparatus—Pipe line**

Bryan, Amer. Frt. Gr. Mag. 45; 3, 14, '25.

Duruz, Pac. Rur. Press, 112; 30, Jl. 10, 1926.

Alden, Ky. St. Hort. Soc. Tr. f. '29, 68-74.

Cullen, Ky. Hort. Soc. Tr. f. 1929, 68-74.

**Spraying apparatus—Portable**

Ekblaw, Amer. Fr. Grow. Mag. 47; 2, 4, 1927.

**Spraying apparatus—Potato**

iBlasingame, C. Gentlm. 93; 11, 17, 124, 1928.

iSherwood, W. Va. Ag. Ext. C. 284, 1-11, 1927.

**Spraying apparatus—Power**

Cavanaugh, U. S. Golf Asso. Green Sec. B. 8, 193-194, 1928.

iTawse J. Agr. & Hort. 29, 113, 1926.

**Spraying apparatus—Selection**

iMason, Spraying, 109-131, 1928.

iSherwood, Am. Frt. Grow. 45; 4, F. '25.

iTawse, J. Ag. (Quebec) 29; 113, F. 1926.

Tawse, Quebec Pom. & Frt. Gr. Soc. R. f. 1925, 117-120, 1926.

**Spraying apparatus—Spray boom**

Gilliam, Ohio St. Hort. Soc. Proc. 60, 119-123, 1928.

**Spraying apparatus—Spray gun**

iChetlain & Overlay, Better Frt. 21; 13, F. 9, Mr. 10, Ap. 1927.

Plass, Hoosier Hort. 10, 25-27, 1928.

Schneiderhan, Ky. St. Hort. Soc. Tr. f. 1929, 128-129.

**Spraying apparatus—Spray rig**

Freeman, Ann. R. Mich. St. Hort. Soc. 55, 80-83, 1925.

Tranter, Ann. R. Mich. St. Hort. Soc. 55, 83-86, 1925.

**Spraying apparatus—Sprayer, 18 nozzles**

iDean, Amer. Potato J. 4, 49-51, 1927.

**Spraying apparatus—Sprayer & cultivator**

West. Farm Equipment J. 43; 9, 24, '29.

**Spraying apparatus—Types**

Charles, East. Dealer, 23; 15, 22, 1929.

Scoates, S. Rur. 36; 15, 8, 1929.

### Spraying apparatus—Spray nozzles & pressure

Stevens, Potato News B. 2, 204, 1925.

— Cal. Cult. 73, 73, 1929.

— Iowa Homestead, 74, 1157, 1929.

### Spraying apparatus—Stationary

Abilgaard, Hoosier Hort. 11, 176-182, '29.

iAnderson, Amer. Frt. Grow. Mag. 48; 2, 5, 1928.

iAnderson, Amer. Fr. Grow. Mag. 48; 3, 10, 1928.

Barnes, Rur. N. Y. 86; 967, 1927.

Brittain, N. S. Dept. Nat. Resource B. 12, 150-153, 1927.

iChetlain & Overley, Better Fruit 21; 8, 13, 1927.

Chetlain & Overley, Better Fruit 21; 9, 9, 1927.

iChetlain & Overley, Better Fruit 21; 10, 10, 20, 1927.

Close, Yakima & Kittitas County, Hort. R. f. 1922-25, 33-34.

Cornell & Crane, Agr. Engin, 10, 160-164, 1929.

iDuruz & Moses, Amer. Fr. Gr. Mag. 45; 2, 41, 1925.

Duruz et al, Cal. Countrym. 11; 6, 7 & 24, 1925.

Farley, Pa. St. Hort. Assoc. News 6; 1, 70-80, 1929.

Fletcher, Va. St. Hort. Soc. Proc. 32, 70-72, 1927.

Fletcher, Mass. Fr. Grow. Assoc. R. 34, 178-180, 1928.

iGarver, Wash. Gen. B. 212, 1927.

Garver, Agr. Eng. 9, 49-50, 1928.

Greeves-Carpenter, Country Gentlm. 92; 10, 44, 1927.

Greevers-Carpenter, J. Ec. Ent. 20, 741, 1927.

Gross, Agr. Eng. 10, 385-386, 1929.

iGross, Rur. N. Y. 88, 1201-1202, 1929.

Hoppert, Ann. R. Nebr. St. Hort. Soc. for 1927, 109.

Lehmann, Amer. Fr. Grow. Mag. 47; 2, 29, 1927.

Lewis, Ill. St. Hort. Soc. Tr. 63, 154-170, 1929.

Luce, C. Gentlm. 93; 9, 48, 1928.

iMason, Spraying, 162-173, 1928.

Morris, Better Frt. 20; 8, 9, 1926.

ibMoses & Duruz, Cal. B. 406, 1926, 29 p.

Muffley, Electrical West. 59, 138-139, '27.

iSundquist, Better Frt. 23; 9, 5-6, 1929.

Tanner, Minn. Hort. 57, 101-103, 1929.

### Spraying apparatus—Traction sprayer

Ballou & Lewis, Hoosier Hort. 10, 92-96, 1928.

### Spraying apparatus—Tractor

James, Rur. N. Y. 84, 921, 1925.

Popular Mechanics Mag. 52; 6, 910, '29.

### Spraying—Cantaloupes

Nissley, C. Gentl. 93; 6, 94, 1928.

Schermerhorn, Amer. Flor. 64, 948, '25.

### Spraying—Celery

Wilson, Ohio Veg. Gr. Assoc. Proc. 13, 92-102, 1928.

### Spraying—Cherry

Dutton, Ann. R. Mich. St. Hort. Soc. 55, 89-91, 1925.

Gray, Ann. R. Mich. St. Hort. Soc. 55, 21-24, 1925.

Ladd, N. Y. Gen. Ext. (Leaf.) 1929.

Parrott, Canner, 62; 1, 26, 1925.

Wells & Dutton, Mich. Hort. Soc. R. 53, 16-19, 1923.

Wells & Dutton, Fruit Belt 22, 5, 1924.

### Spraying—Citrus

iCook & Dozier, P. R. Ins. C. 88, 1925, 23 p.

Fawcett, Cal. Cit. 14, 280, 1929.

Hinds, La. Ext. C. 122, 25-30, 1929.

Hodges, Pac. Rur. Press, 110, 128, 1925.

Hunt, Citrus Indust. 5: 9, 5-8, 210, '27.

Kime, Cit. Indust. 9; 9, 20-21, 1928.

Knight, Sci. 68, 572, 1928.

LaFollette, Cal. Citro. 10, 440-441, '25.

Lenfest, Cit. Indus. 6; 11, 6, 7, 1925.

Merrill, Cal. R. 1924-25, 43, 1926.

Miller, Fla. B. 203, 465, 1929.

Nichols, Citrus Indust. 3: 3, 12-13, 1922.

Ocfemia & Roldan, Amer. J. Botany, 14, 13, 1927.

Quayle, Cal. Cit. 10, 348, 1925.

Quayle, Cit. Leaves, 5; 8, 5, 6 & 21, '25.

Smith, Cal. Cit. 13, 201, 1928.

Smith, Cal. Cit. 13, 278, 316, 1928.

Vosbury & Robinson, USFB 1343, rev. Sept. 1929, 36-37.

Watson, Fla. B. 183, 369-373, 1927.

Weldon, Pac. Rur. Press, 118, 214, 1929.

Weldon, Pac. Rur. Press 118, 400, 1929.

Westmoreland, Fla. St. Hort. Soc. Proc. 40, 55-56, 1927.

Woglum, Calif. Cit. 12, 348, 364, 1929.

- Woglum, LaFollette & Landon, Cal. Cit Fr. Grow. Exch. B. 4, 1927, 33 p.
- Woodhams, Cal. Cult. 78, 325, 1929.
- Yothers & McBride, Cit. Indus. 8; 10, 15, 29, 1927.
- Spraying—Commercial**
- Cummings, Amer. Fr. Gr. 49; 5, 10-11, 1929.
- Spraying—Cost**
- iEllenwood, Ohio Bi-Mo. B. 13; 2, 65-68, 1928.
- Ellenwood, Ohio C. 23, 18-19, 1929.
- Farnsworth, Ohio St. Hort. Soc. Proc. 60, 93-94, 1927.
- Farnsworth, Pa. St. Hort. Assoc. News 6; 1, 144-150, 1929.
- Gardner, Ann. R. Mich. St. Hort. Soc. 57, 142-151, 1927.
- Gardner, N. Y. Hort. Soc. R. 57, 142-151, 1927.
- Turner, Amer. Farming 19; 4, 3, 1924.
- Spraying—Cranberry**
- Beckwith, Am. Cranb. Gr. Assoc. Proc. 56, 15, 1926.
- Crowley, Wash. B. 229, 61-64, 1929.
- Spraying—Cucumbers & Melons**
- Melhus & Elmer, Iowa C. 99, 14, 1925.
- Spraying—Economical method**
- Anderson, Hoosier Hort. 8, 55-59, 1926.
- Cardinell, Hoosier Hort. 11; 5, 70-78, '29.
- Ellenwood, Rur. N. Y. 88, 786, 1929.
- Floyd, Cit. Indus. 7; 4, 10, 1926.
- Grossenbacher, Citrus Indust. 3; 4, 10, '22.
- Thomas, Tr. Ill. St. Hort. Soc. 62, 341-347, 1929.
- Spraying—Eggplant**
- Spender, Zimmerley & Davis, Va. Truck B. 47, 331-347, 1924.
- Spraying Evergreens**
- Wilson, Tr. Iowa Hort. Soc. 62, 19-23, 1927.
- Spraying—Experiments**
- Ballou & Lewis, Ohio St. Hort. Soc. Proc. 60, 59-75, 1927.
- Ballou & Lewis, Hoosier Hort. 10, 92-96, 1928.
- Ballou & Lewis, Hoosier Hort. 10, 102-112, 1928.
- Ballou & Lewis, Ohio Sp. C. 23, 17-18, '29.
- Clayton, Canning Trade, 51; 31, 14, 16, 18, 1929.
- Farnsworth, Ohio St. Hort. Soc. Proc. 60, 90-94, 1927.
- Spuler, Wash. B. 232, 1929, 70 p.
- Turner, Proc. Nat'l Shade Tree Conf. 5, 45-47, 1929.
- Wakeland, Idaho B. 137, 1925, 11 p.
- Tr. Ky. St. Hort. Soc. 71, 131-133, 1926.
- Spraying—Fall**
- Gregory, Capper's Farm. 40; 12, 27, '29.
- Spraying—Flies**
- Ward, Fla. Grow. 37; 10, 28, 1929.
- Soap. 2; 2, 49, 51 & 53, 1926.
- Spraying—Forest Insects**
- iEvenden, Timberman, 26; 9, 51, 1925.
- Spraying—Fruits**
- Alderman, Farm. 46, 801, 1928.
- Anderson, Tr. Ill. St. Hort. Soc. 52, 136-156, 1929.
- Barney, Fla. Grow. 32; 16, 7, 1925.
- Brunson, S. C. Wkly. News Notes, 18, 28, 1929.
- Burkholder, Better Homes & Gardens 4; 9, 37, 1926.
- Caesar, Ont. Frt. Grow. Assoc. R. 56, 9-14, 1925.
- iCooper, Ky. Ext. C. 176, 1925, 5 p.
- Davis, Hoosier Hort. 7, 110-111, 1925.
- Holt, Canad. Hort. Fr. & Tr. ed. 41, 46, 1928.
- Isbell, South Rur. 36; 13, 11, 1929.
- Johnstone, Cal. Cult. 71, 547, 554, '28.
- iKirby, Amer. Agr. 122, 59, 1928.
- McCue, Peninsula Hort. Soc. Trans. f. 1925, 44-45.
- Magill & Olney, Ky. Ext. C. 176, 1928, 15 p.
- Marlatt, Nat. Republic 17; 7, 6, 1929.
- Motz, Schneiderhan & Schoene, Va. Ext. B. 94, Jan. 1925, 21 p.
- iMotz, Schneiderhan & Hough, Va. Ext. B, 111, 1929, 30p.
- Nichols, Iowa St. Hort. Soc. Tr. 59, 29, 1925.
- iPickett & Williams, Kans. C. 125, 1926, 15 p.
- Pickett & Martin, Kans. C. 145, 17-32, 1929.
- Pickett & Williams, Kans. St. Hort. Soc. Tr. 38, 38-50, 1926.
- Pickett & Martin, Kans. C. 145, '29, 32p.
- Ryan, Cal. Agr. Mo. B. 17, 376-377, '28.

**Spraying—Fruits *Cont'd***

- iSears, *Productive Small Frt. Cult.* ed. 2, 39-45, 1925.  
 Snapp, *Am. Fr. Gr. Mag.* 46; 2, 10, '26.  
 iTalbert, *Mo. Ext. C.* 196, 1928, 16 p.  
 iWiggins & Hoppert, *Neb. C.* 36, '28, 28 p.  
 — *Ill. Hort. Soc. Tr.* 59, 36-52, 1925.  
 — *Ill. Hort. Soc. Trans.* 60, 36-51, '27.  
 — *Ill. St. Hort. Soc. Tr.* 62, 37-38, '28.  
 — *Ky. C.* 176, 1925 7 p.

**Spraying—Garden insects**

- Barnes, *Amer. Home*, 1, 410, 1929.  
 Foote, *Ariz. Producer*, 8; 16, 8, 1929.

**Spraying—Gooseberry**

- Barss, *Better Fruit* 20; 8, 42, 1926.

**Spraying—Grapes**

- Cullinan, *Ind. Ext. B.* 102 rev. 12, '26.  
 iDozier & Butler, *Peninsula Hort. Soc. Tr.* 42, 123-124, 1929.  
 Drain & Roberts, *Mass. Ext. Leaf.* 100 A, 2 p.  
 Matthews, *Ky. Ext. C.* 209, 21-22, '27.  
 iMeyer, *Mo. Ext. C.* 166, May '25, 7 p.  
 Pickett & Williams, *Kans. C.* 125, '26, 13-14.  
 Sears, *Mass. Ext. L.* 64 rev. 14, 1928.  
 iSwartout, *Mo. Ext. C.* 224, 1929; 11 p.  
 Woolsey, *Farm & Ranch*, 45; 19, 25, '26.  
 Young & Isely, *Ark. Ext. C.* 212, 1925.  
 — *Mo. Ext. C.* 166, 1-7, 1925.

**Spraying history**

- Mason, *Spraying* 1-12, 1928.

**Spraying—Importance of records**

- Burkholder, *Hoosier Hort.* 10, 28-29, '28.

**Spraying—Lemons**

- iHunt, *Cal. Cit.* 14; 12, 524, 525, 527, '29.  
 McGregor, *Cal. Fr. Grow. Exch. B.* 5, 33-34, 1928.

**Spraying—Lettuce**

- Foote, *Ariz. Producer*, 8; 16, 8, 1929.

**Spraying—Lima beans**

- Clayton, *Canning Trade*, 51; 32, 14, 16, 18, 20, 1929.

**Spraying—Mosquitoes**

- Chemicals, 31; 24, 9, 1929.

**Spraying—Nursery**

- Tukey, *Nat. Nurserym.* 36; 20, 10, '29.  
 Tukey, *Amer. Nurserym.* 50, 215, '29.  
 Tukey, *Flor. Exch.* 72; 3, 33, 1929.

**Spraying—Onions**

- iBourne, *J. Ec. Ent.* 22, 681-683, 1929.

**Spraying—Ont.**

- Caesar, *Farm. Advoc.* 60, 640, 1925.  
 — *Farm. Advoc.* 61, 439, 1926.

**Spraying—Oranges**

- Hawkins & Berger, *Cit. Indus.* 8; 4, 32, '27.  
 McGregor, *Cal. Fr. Grow. Exch. B.* 5, 30-32, 1928.

**Spraying—Orchards**

- Atkinson, *Pa. St. Hort. Assoc. News*, 6; 1, 88-9, 1929.  
 Ballou, *Hoosier Hort.* 7, 13, 1925.  
 Barss, *Oreg. St. Hort. Soc. Bien. Rept.* 19, 85, 1927.  
 Beatty, *Garden & Home Bldg.* 42, 283, '25.  
 Bunting, *J. Agr. & Hort.* 28, 168, 1925.  
 Crosby et al, *N.Y.C.B.* 498, 74-80, 1929.  
 Cummings, *Vt. St. Hort. Soc. R.* 22, 37-38, 1928.  
 Davis, *Bur. Farm.* 4; 8, *Miss. Farm. Bur. Federation News*, Apr. 1929, 21.  
 deOng, *Wash. St. Hort. Assoc. Proc.* 22, 47-53, 1926.  
 Fracker & Vaughn, *Wis. Hort.* 16, 134, '26.  
 Goode, *Success Farm.* 23; 4, 36, 44, '25.  
 Gourley, *Me. St. Bd. Agr. R.* 22, 126-127, '26.  
 Howard, *USDA Ent. R. f.* 1926, 4-5.  
 Hough, *Va. B.* 260, 1928, 12 p.  
 Marlatt, *USDA Ent. R. f.* 1929, 3.  
 iNichols, *Iowa Ext. B.* 134, 1926, 11 p.  
 Peairs & Sherwood, *W. Va. C.* 36 (Sup.) 1926 4 p.  
 Richardson, *Peninsula Hort. Soc. Tr. f.* 1926, 31-33.  
 Rollins, *N. H. Ext. C.* 62, 6-7, 1926.  
 Sherwood & Peairs, *W. Va. C.* 54, '29, 31 p.  
 Straight, *Can. Exp. Sta. Sidney, B. C. R. f.* 1927, 12-22, 1928.  
 Symons, *Md. Ext. Serv. R.* 10, 120, '25.  
 Watkins, *Mich. St. Dept. Agr. Bien. R.* 1, 146, 1924.  
 Weldon, *Pac. Rur. Press*, 118, 82, '29.  
 Williams, *Kans. St. Hort. Soc. Tr.* 38, 86-90, 1926.  
 Yapp, *Kans. Ent. Com. Bien. R.* 11, 6-12, 1929.  
 — *Del. Ext. C.* 12, 1923.  
 — *N. J. C.* 198, 1926, 3 p.  
 — *Tex. Ext. C.* 61, 1928, 4 p.  
 — *Va. Poly. Ext. News* 9; 2, 5, 1926.  
 — *Wis. Ext. C.* 158, 1923, 8 p.

**Spraying—Packing Houses**

McGregor, Cal. Fr. Grow. Exch. B. 5,  
34-35, 1928.

**Spraying—Peach**

Allen, South. Cult. 87; 16, 9, 1929.  
Burkholder, C. Gentl. 92; 3, 165, 1927.  
Bush, N. Y. St. Hort. Soc. Proc. 73, 48, '28.  
Duruz, Cal. Cult. 66, 306, 1926.  
F. A. J., Rur. N. Y. 85, 641, 1926.  
Flint, Trans. Ill. Hort. Soc. 61, 473-474, '27.  
McHatton, C. Gentl. 93; 4, 133, 1928.  
Palmer, Ont. Frt. Grow. Assoc. R. 58,  
78-79, 1926.  
Parrott, Conn. Pomol. Soc. Proc. 35, 52-  
56, 1926.  
iSchneiderhan & Hurt, Va. Poly. B. 239,  
1925, 16 p.

**Spraying—Peach**

Stabler, Cal. Cult. 65, 545, 1925.  
Stoddard & Zappe, Conn. B. Immed.  
Inform. 37, 1924, 2 p.  
T. H. B., Rur. N. Y. 85, 645, 1926.  
iTaft, Fruit Belt 22: 6, 4, 1924.  
Urbahns, Cal. Cult. 6, 130, 1926.  
Woolsey, Farm & Ranch, 45; 20, 22, 1926.  
Young, Ohio Wkly. P. B. 13; 10, 1928.  
i—Miss. St. Pl. Bd. Quar. B. 6; 4, 21, '27.

**Spraying—Pear**

Childs, Oreg. Hort. Soc. Ann. Meet. 40,  
131-135, 1925.  
Gentner, Ann. R. Mich. St. Hort. Soc.  
57, 199-206, 1927.  
Lewis, Cal. Cult. 70, 604, 1928.  
Pickett & Williams, Kans. C. 125, '26,  
10-11.  
Urbahns, Cal. Cult. 66, 340, 1926.

**Spraying—Pecan**

iNeal, Miss. St. Plt. Bd. Quar. B. 7; 1, 8, '27.  
Nolen, Fla. P. B. 413, 1929, 2 p.  
Sawyer, Amer. Nut. J. 30, 11, 1929.  
— Amer. Nut. J. 30, 19, 1929.  
— Am. Nut. J. 30, 65, 1929.

**Spraying—Peonies**

Auten, Flower Grower 11, 23, 1924.

**Spraying—Pineapple**

iWilcox, C. Gentl. 93; 1, 4, 1928.

**Spraying—Plum**

Lees & Briton-Jones, J. Pomol. 4, 196, '25.

**Spraying—Potatoes**

Agee, Penn. Farm. 101, 65, 1929.  
B. A. Amer. Agr. 118; 1, 5, 1926.  
Barton, Fruits & Gardens, 27; 8, 15, '29.

iButler, N. H. C. 26, 1927, 16 p.

Chupp, Amer. Prod. Grow. 4; 6, 5-6, '29.  
Clinton, Conn. B. Immed. Inform. 42,  
1924, 2 p.

Dean, Potato News B. 2, 193-196, 1925.

Dean, Potato News B. 2, 305-306, 1925.

Dean, N. J. Dept. Agr. B. 45, 158-167, '26.

Ensign, Fla. Gr. 35; 2, 4, 1927.

Fracker, Wis. Dept. Agr. B. 69, 83-86, '24.

iGlines, Ohio Ext. B. 20; 8, 12, '24-'25.

iHuckett, N. Y. Gen. C. 90, 1927, 10 p.

Kotila & Coons, Mich. Tech. B. 72, '25, 15p.

Martin, Potato News B. 2, 62, 1925.

iMartin, Amer. Prod. Grow. 4; 7, 3, '29.

Martin, Hints to Potato Grow. 10; 6, 1-  
3, 1929.

Moore, Amer. Potato J., 3, 324, 1926.

Moore, Mich. Quar. B. 9, 131-133, '27.

iMoore & Lundin, Mich. Ext. Club. B.  
2, rev. 22-25, 1926.

Nixon, Amer. Potato J. 3, 59, 1926.

iNixon, Amer. Potato J. 3, 349-353, 1926.

Nixon, Market Grow. J. 38, 357, 1926.

Pierstorff, Farm & Dairy, 15; 44, 6, '29.

Prince, Country Gentl. 93; 1, 98, '28.

Quinn, Mo. B. 240, 25, 1926.

Racicot, Canada Dom. Expt. Farms,  
Season. Hints 44, 9-11, 1929.

Rex, N. J. Dept. Agr. R. 13, 106, 1929.

Schneiderhan, Amer. Potato J. 6, 237-  
242, 1929.

Snoddy, Ohio Farm. 164, 260, 1929.

Stuart, U.S.F. B. 1064, rev. '29, 24-28.

Tawse, J. Agr. & Hort. 28, 184, 1925.

Tilford, O. Bi-Mo. B. 13; 1, 21-23, 1928.

Tilford, Ohio Farm. 164, 576, 1929.

Wilkinson, Conn. Ext. B. 95, 5-6, 1926.

Williams, Ohio B. 382, 30, 1924.

Williams, Conn. Veg. Grow. Assoc. R. f.  
1927, 78-83.

— Nassau Co. F. & H. B. News  
Market Gr. J. 42, 165, 1928.

**Spraying Raspberries**

Ulrich, Minn. Hort. 54, 113-115, 1926.

Williamson, Cal. Cult. 64, 508, 1925.

**Spraying—Results**

Nichols, Iowa Hort. Soc. Trans. 60, 102-  
106, 1927.

Parker, Proc. Mont. Hort. Soc. 28, 95-  
99, 1927.

Woglum, LaFollette & Landon, Cal.  
Fr. Grow. Exch. B. 4, 6-7, 1927.

**Spraying—Results *Cont'd***

— Conn. Veg. Grow. Assoc. R. f. '27,  
94-95.

**Spraying—Satsuma oranges**

iClayton, Fla. Ext. B. 41, 15, 1925.

**Spraying—Scientific research**

Bourne, Amer. Frt. Grow. Mag. 49; 8,  
8-9, 1929.

**Spraying—Shade Trees**

Bartlett, Tree Talk 7; 3, 15-18, 1926.

Britton, Conn. B. Immed. Inform. 40,  
1924, 2 p.

Cardinell, Farm. J. Phila. 51; 6, 20, '27.

iCollingwood, Amer. Forests 35, 649-652,  
1929.

Davey, Amer. Flor. 65; 1945, 8, 1925.

Davey, Tree Ref. Book 1929, Sec. 7, 1-3.

iSafro, N. J. Dept. Agr. C. 156, '29, 33 p.

Sears, Country Gentl. 93; 5, 96, 1928.

**Spraying—So. Cal.**

LaFollette, Cal. Cit. 10, 324, 1925.

**Spraying—Statistics**

Gillett, N. Y. St. Hort. Soc. Proc. 73,  
143-146, 1928.

**Spraying—Strawberries**

Pickett & Williams, Kans. C. 125, 14, '26.

**Spraying—Summer**

Meyer, Mo. Ext. C. 165, Apr. 1925.

Newcomer, Wash. St. Hort. Assoc.  
Proc. 21, 125-130, 1925.

**Spraying—Tobacco**

Leitch, Farm. Advoc. 62, 801, 1927.

**Spraying—Tomatoes**

Barre, S. C. Clemson, Col. Weekly  
News Notes 14; 43, 1926.

Davis, Canner, 66; 8, 15-16, 1928.

iPage, Mo. Ext. Leaf. 23, 1925, 2 p.

**Spraying—Vegetables**

Chupp, Cornell Ext. B. 171, 14-16, '28.

G. C. T. Successful Farming 24; 5, 34, '26.

**Spraying—Water loss reduction by**

Cross, Proc. Okla. Acad. Sci. 7, 129-131, '28.

**Spraying—Winter**

Baade, Cal. Cult. 67, 554, 1926.

Bonnet, Cal. Grape Grow. 9; 11, 14, '28.

Lewis, Cal. Cult. 69, 527, 1927.

Winberg, Gulf Coast Grower 2; 8, 3, '25.

Winberg, Amer. Fr. Gr. Mag. 46, 26, 1926.

— Cal. Cult. 67, 638, 1926.

**Spraying & Bees**

Bourne, Mass. B. 234, 74-84, 1927.

bMcIndoo & Demuth, U.S.D.A.B. 1364,  
1926, 32 p.

V. H. M. Rur. N. Y. 84, 1580, 1925.

**Spraying & Cultivating**

Snoddy, Ohio Farm. 164, 260, 1929.

Stearns, N. J. R. 47, 194-195, 1927.

**Spraying & Dusting**

Ballou, Ohio B. 431, 85-88, 1929.

Ballou & Lewis, Hoosier Hort. 10, 92-  
96, 1928.

Ballou & Lewis, Hoosier Hort. 10, 102-  
112, 1928.

Ballou & Lewis, Ohio St. Hort. Soc.  
Proc. 60, 59-75, 1928.

Ballou & Lewis, Ohio St. Hort. Soc.  
Proc. 63, 61-70, 1928.

Ballou & Lewis, Ohio St. Hort. Soc.  
Proc. 62, 59-72, 1929.

Beach, Penn. Stock & F. 49, 903, 1926.

bBlake, Sci. Progress, 21, 688-691, Ap. '27.

Dusham, Fagan & Thurston, Pa. St.  
Col. B. 204, 38, 1926.

Farnsworth, Ohio St. Hort. Soc. Proc.  
60, 90-94, 1928.

Floyd, Cit. Indus. 7; 4, 10, 1926.

iFrank, West. Wash. B. 12, 109-112, Ja. '25.

iGoode, Successful F. 25; 30, My. 1927.

Hodges, Pac. Rur. Press, 111; 266, F. 27, '26.

iHume, Cult. of Cit. Frts. 1926, 503-534.

McMunn, Ill. Hort. Soc. Tr. 60, 127-  
146, 1926.

iMason, Spraying, dusting & Fumigation  
of plants, 1928, 539 p.

iPelton, Rur. N. Y. 84, 639, 576 Mr. 28-  
Ap. 4, 1925.

Petch, Quebec Pom. & Frt. Gr. Soc. R. f.  
1925, 39-44.

Pickett, Kans. St. Hort. Soc. R. 38, 35-  
38, 1926.

Ruth & Kelley, Ill. St. Hort. Soc. Tr.  
56, n. s., 90-103, 1923.

Snapp, Am. Frt. Grow. 48, 34, 1928.

Stoddard, Conn. Pomol. Soc. Proc. 35,  
15-20, 1926.

Van Buren, N. Y. St. Hort. Soc. Proc.  
73, 267-316, 1928.

Yothers, Cit. Indus. 6; 4, 8, 38, '25.

**Spraying & Dusting—Apples**

Ballou, Trans. Ill. Hort. Soc. 61, 123-  
148, 1927.

biFolsom, Me. B. 333, 145-204, 1926.

bMorse & Folsom, Me. B. 325, 125-184, '25.

- Parrott, et al., N. Y. Geneva C. 78, '25, 16 p.  
Stoddard & Zappe, Conn. B. 285, 228-234, 1927.  
Worthley, Pa. St. Col. B. 243, 29, '29.
- Spraying & Dusting—Co-operative**  
Cory, Md. Agr. Soc. R. 8, 221, 1924.  
Crane, Potato News B. 2, 248, 1925.  
F. R. C., Successful Farm. 23; 4, 38, '25.  
Harrington, Proc. Mont. Hort. Soc. 26, 63-65, 1927.  
Kuehner, Wis. Hort. Soc. Ann. R. 56, 100-103, 1926.  
Kuehner, Wis. Hort. 16; 12, Sup. 100-102, 1926.  
iKuehner, Wis. Hort. 18, 221, 1928.  
Mann, N. Y. C. R. 41, 151, 1928.  
Pickett, N. S. Fr. Grow. Assoc. R. 65, 106-107, 1929.  
iPierstorff & Gross, N. J. Ext. B. 67, '28, 11 p.  
Rose, Minn. St. Hort. Soc. R. 52, 88-89, '24.  
Shannon, Farmer, 47; 24, 3, 1929.  
Spates, Ill. Hort. Soc. Trans. 59, 404-410, 1926.  
—— Wis. Hort. 17, 159, 1927.
- Spraying & dusting—Fruit**  
iGardner, Me. Ext. B. 160, 1926, 12 p.  
Thurston & Fagan, Penn. St. Hort. Assoc. Proc. f. 1925, 100-105, 1926.
- Spraying & dusting—Hemlock**  
iFracker & Granovsky, Am. For. 33, 587-588, O. 1927.
- Spraying & dusting—Nursery**  
McDonnough, Iowa Hort. Soc. Tr. 61, 10-12, 1926.
- Spraying & dusting—Potato**  
bBonde, et al., Me. B. 352, 97-140, '29.  
Folsom, Potato Assoc. Amer. Proc. 15, 305-309, 1928.  
ibFolsom & Bonde, Me. B. 334, 205-284, '26.  
Gardner, Mich. R. f. 1926-28, 17.  
iHuckett, N. Y. Gen. C. 90, 1927, 10 p.  
Thatcher, N. Y. Geneva R. 46, 49-50, '27.  
Tilford, Ohio Mo. B. 10, 1, 2, 20, 1925.  
Tilford, Ohio B. 341, 56-57, 1929.
- Spraying & dusting—Vegetables**  
Guba & Whitcomb, Mass. Ext. Leaf. 116, 1927, 7 p.  
—— Va. Ext. News 7; 7, 5, 1925.
- Spraying & Fumigating**  
Armitage, Cal. Cit. 13; 460, 1928.  
Woglum, Cal. Cit. 12, 348, 1927.  
Woglum, Cal. Cit. 13, 359, 1928.
- Spraying vs. dusting**  
Combs, Purdue Agr. 23, 222, 1929.  
ibDudley & Fluke, Wis. Res. B. 82, '28, 16 p.  
Herbert, J. Ec. Ent. 20, 665-667, '27.  
iHurd, Mich. Agr. 9; 1, 5, 16, 1929.  
S. F. C., Country Gentl. 91, 135, 1926.  
Thatcher, N. Y. Gen. R. 45, 43-44, '26.  
Walker, Proc. Acad. Ent. Soc. 10, 8-16, '25.  
Zappe, & Stoddard, Conn. B. 275, 272-278, 1926.  
—— Farm & Dairy, 14; 18, 4, 1928.  
—— Fruit Belt 22; 2, 13, 1924.
- Spraying vs. fumigation**  
Woglum & LaFollette, Cal. Cit. 10, 349, '25.
- Sprays**  
O'Kane, Cal. Dept. Agr. Mo. B. 18, 439-441, 1929.  
—— Fert. Feeding Stuffs & Farm Supplies J. 10, 455, 1925.  
—— Oreg. St. Hort. Soc. Bien. R. 19, 139-141, 1927.
- Sprays—Amount**  
Motz, Schneiderhan & Hough, Va. Poly B. 111, 11-12.
- Sprays—Combination, Fungicides & insecticides**  
Atwood & Van Buren, N. Y. Dept. Farms & Markets C. 292, 3, 1925.
- Sprays—Dust vs. liquid**  
Kinthead, Kans. St. Hort. Soc. Bien. R. 39, 15-18, 1928.
- Sprays—Homemade**  
—— Market Growers J., 42, 460-463, '28.  
—— Market Growers J., 43, 496, 1928.
- Sprays—Late, Importance of**  
Canadian Hort. 52, 231, 1929.
- Sprays—Tests**  
Hoppert, Neb. St. Bd. Agr. R. f. '28, 529-534.
- Sprays—Time of application**  
iCardinell, Amer. Fr. Grow. Mag. 48; 6, 5, 1928.  
Harter, Proc. Wash. St. Hort. Assoc. 21, 136-138, 1927.  
McLean, N. J. St. Hort. Soc. Proc. f. 1928, 149.
- Sprays & Dusts—Excess of lime in**  
Ballou & Lewis, Amer. Frt. Grow. Mag. 48; 4, 12-13, 1928.
- \*Spring canker worm, see *Paleacrita vernata***



## Springtails—in a well

Herrick, Rur. N. Y. 86, 558, 1927.

## Springtails on pineapple

illingworth, Pineapple News 1, 121-125, 1927.

Spruce ambrosia beetle, *see* *Trypodendron bivittatum*\*Spruce aphid, *see* *Aphis abietina*Spruce bark beetle, *see* *Ips perturbatus*Spruce bud scale, *see* *Physokermes piceae*\*Spruce budworm, *see* *Harmologa fumiferana*Spruce cone worm, *see* *Dioryctria reniculella*Spruce gall-aphid, *see* *Chermes abietis*

## Spruce insects

Bailey, Comm. Agr. Vt. Bien. R. 13, 55-57, 1926.

Peirson, Me. For. Serv. B. 5, 121-122, '27.

Spruce mite, *see* *Paratetranychus ununguis*\*Spruce sawfly, *see* *Neodiprion abietis*Spruce tortrix, *see* *Argyroplote abietana*Squamatoles—n. gen., *trivittata*

nCurran, Amer. Mus. Nov. 275, 2-4, '27.

Square necked grain beetle, *see* *Silvanus gemellatus*\*Squash beetle, *see* *Epilachna borealis*\*Squash borer, *see* *Melittia satyriniformis*\*Squash bug, *see* *Anasa tristis*

## Squash insects

iSpencer & Henderson, Va. Truck B. 52, 307-314, 1925.

\*Stable fly, *see* *Stomoxys calcitrans*

## Stagmomantis carolina (Carolina mantis)\*

iDidlake, Ent. News 37, 169-174, 1926.

Fernald, Applied Ent. ed. 2, 79, 1926.

Rau, St. Louis Acad. Sci. Tr. 25, 190, '27.

bRoberts, Can. Ent. 60, 209-212, 1928.

## Stalactis trangeri

nSchaus, Proc. Ent. Soc. Wash. 30, 50, '28.

\*Stalk borer, *see* *Papaipema nebris nitela*Stalk-eyed fly, Stem eyed fly, *see* *Sphyrapcephala brevicornis*

## Stannodes coenonymphata

Cassino & Swett, Lepidopterist 4, 38, '25.

## Stannodes kelseyi, simulis

nWright, San Diego Soc. Nat. Hist. 5; 3, 41, 42, 1927.

## Staphylinus olens

Bequaert, J. Parasitol. 11, 202, 1925.

## Staurojoenina assimilis

niKirby Cal. Univ. Pub. Zool. 29, 26-102, 1926.

## Stauropus briachisia 75-76, niteria 76, palladina 76-77

nSchaus, P. U. S. N. M. 73; 19, 1928.

## Steatococcus samaraius

nMorrison, Proc. Biol. Soc. Wash. 40, 109, 1927.

## Steatoda borealis

Barrows, Ann. Ent. Soc. Amer. 18, 506, '25.

Rau, St. Louis Acad. Sci. Tr. 25, 204, '27.

Stegomyia fasciata, *see* *Aedes aegypti*

## Stelis callura

nCockerell, Proc. Cal. Acad. Sci. ser. 4, 14, 11, 212-213, 1925.

## Stelis floridana

nGraenicher, Ent. News 39, 282-283, '29.

## Stelis fremonti

nCockerell, Proc. Cal. Acad. Sci. Ser. 4; 14, 11, 213, 1925.

## Stelis permaculata

Hicks, Ent. News 38, 297-300, 1927.

## Stenelmis fuscatus

nBlatchley, Can. Ent. 57, 164-165, 1925.

## Steniolia duplicata

Fox, Cal. Acad. Sci. Proc. ser. 4, 15; 5, 219, 1926.

## Steniolia elegans

niParker, P. U. S. N. M. 75; 5, 50-51, '29

## Stenobasipteron arnoldi 8-11, difficile 11-14, gracile 14-16

iBequaert, Psyche 32, 1925.

## Stenobasipteron spp.—Key

Bequaert, Psyche 32, 17, 1925.

## Stenocorus schaumii, trivittatus

Champlain, Kirk & Knoll, Ent. News 36, 106, 1925.

## Stenocorus vestitus

Hardy & Preece, Pan-Pac. Ent. 4; 2, 62, '27.

## Stenocranus saccharivorus (West Indian cane fly)

Gowdey, Jamaica, Sci. & Agr. Dept. Ann. R. f. 1926, 17, 1927.

Gowdey, Jamaica Sci. & Agr. Dept. Ann. R. f. 1927, 21, 1928.

Osborn, J. Ec. Ent. 19, 105, 1926.

Osborn, Ref. Bk. Sugar Indus. of World 4, 48, 1926.

## Stenodontes chevrolati

Davis, J. N. Y. Ent. Soc. 33, 116, '25.

**Stenodynerus vagus**

Rau, St. Louis Acad. Sci. Tr. 25, 404-405, 1928.

**Stenodynerus zendaloides**

Rau, St. Louis Acad. Sci. Tr. 25, 400-404, 1928.

**Stenolemus arizonensis** 28, *hirtipes* 32, *interstitialis* 31, *mexicanus* 32, *pallidipennis* 30, *perplexus* 33, *pristinus* 29, *schwarzi* 30, spp.—Key 26, *spiniger* 33, *variatus* 31

niMcAtee & Malloch, P.U.S.N.M. 67, Art. 1, 1925.

**Stenoma querciella**

iBusck, Proc. Ent. Soc. Wash. 27, 48, '25.

**Stenopelmatus fuscus**

biDavis, Cal. Univ. Pub. Ent. 4; 7, 159-208, 1927.

iDavis & Smith, Pan. Pac. Ent. 2, 176-177, 1926.

**Stenopelmatus intermedius**

iCaudell, Proc. Ent. Soc. Wash. 30, 105, '28.

niDavis & Smith, Pan. Pac. Ent. 2, 174-180, 1926.

**Stenopelmatus longispina**

bEssig, Insects of West. No. Amer. '26, 97-98.

**Stenopelmatus pictus**

Davis & Smith, Pan-Pac. Ent. 2, 179-180, 1926.

biSmith, Cal. Univ. Pubs. Zool. 33; 4, 57-68, 1929.

**Stenopelmatus sp.**

Cooley, Mont. B. 170, 24, 1925.

biDavis, Ann. Ent. Soc. Amer. 20, 359-362, 1927.

Smith, Cal. Univ. Pubs. Zool. 33, 57-68, '29.

**Stenopodius flavidus**

Brisley, Trans. Amer. Ent. Soc. 51, 180, '25.

Van Dyke, Pan. Pac. Ent. 1, 174-175, '25.

**Stenoporpia elena** 77-78, *jemesata* 75-77

nCassino, Lepidopterist 4, 1927.

**Stenoporpia umbraria**

inMcDunnough, Can. Ent. 57, 11, 1925.

**Stenostomus viduus**

Frost, Bklyn. Ent. Soc. B. 23, 133, '28.

**Stenosyrphus albipunctatus** 104-106, *columbiae* 110-111, *diversipunctatus* 106-108, *garretti* 109-110, *hunteri* 171, *imperialis* 100-101, *melanderi* 103, *remotus* 108-109, *subfasciatus* 111-112, *submarginalis* 101-102, *terminalis* 98-99

niCurran, Kans. Univ. Sci. B. 15, 1925.

**Stenotarsus blatchleyi**

niWalton, Ent. News 39, 217-218, 1928.

**Stenoxenus fulvus**

nJohannsen, Ent. News 38, 70-72, 1927.

**Stenus exploratus**

nFairbanks, Pan-Pacif. Ent. 3; 2, 61-62, '26.

**Stenus exploratus, frigidus**

nFall, Pan-Pac. Ent. 3, 59-62, 1926.

**Stephanitis blatchleyi**

Drake, Fla. Ent. 9, 37-38, 1925.

**Stephanitis rhododendri** (*Rhododendron lacebug*)\*

White, Shade Tree, 2, 9, 1929.

**Stephanoderes coffeae**

iNeiva et al, Rev. de Agr. Puerto Rico 14, 264-273, 1925.

**Stephanonympha nelumbium**

niKirby, Cal. Univ. Pub. Zool. 29, 112-114, 1926.

**Stephanothrips bradleyi**

nHood, Proc. Biol. Soc. Wash. 40, 204, '27.

**Stephanothrips occidentalis**

nHood, Psyche 32, 69, 1925.

iHood & Williams, Ann. Ent. Soc. Amer. 20, 6-8, 1927.

**Stereopalpus columbianus**

nHopping, Can. Ent. 57, 207, 1925.

**Stericta anthimusalis** 34, *bevnoa* 35,

*cecidiptoides* 40, *comgalla* 35-36,

*eadberti* 36, *hermengilda* 37, *olivencia*

41, *paschasia* 37-38, *petamona* 38,

*phaebadia* 39, *pontealis* 39, *possidia*

40

niSchaus, Ann. Carnegie Mus. 16; 1, '25.

**Sterictiphora cellularis**

ibChapman & Gould, Va. Truck B. 68, 769 786, 1929.

**Sterilization of bulbs**

Weigel & Swenson, Flor. Rev. 58; 1503, 48-49, 1926.

**Steringomyia montana**, spp.—Key

nShannon, Proc. Ent. Soc. Wash. 28, 134-135, 1926.

**Steriphanus sp**

McDonald, J. Ec. Ent. 18, 639, 1925.

**Sternochetus mangiferae**, *see* *Cryptorhynchus mangiferae*

**Sterphus aurifrons**

nShannon, P. U.S.N.M. 69, Art. 9, 46-47, 1926.

- Sthenarus mcatee**  
 nKnight, Proc. Biol. Soc. Wash. 40, 9-10, '27.
- Sthenarus plebejus**  
 Knight, Can. Ent. 58, 256, 1926.
- Sthenopleura n. gen., latifrons**  
 nAldrich, Trans. Amer. Ent. Soc. 52, 18-19, 1926.
- Stialeomyidae—Canada**  
 Curran, Tr. Roy. Soc. Can. Sec. 5, Biol. Sci. 21, 191-228, 1927.
- Stibia hannai, williamsi**  
 nBlaisdell, Proc. Cal. Acad. Sci. ser. 4; 14, 14, 328-330, 1925.
- Stibadium unicum**  
 nBarnes & Benjamin, Ins. Insc. Mens. 14; 1-2, 4-5, 1926.
- \***Sticktight flea, see Echidnophga gallinacea**
- Stictia infracta**  
 nParker, P. U. S. N. M. 75; 5, 33-34, 1929.
- Stictia signata**  
 Fox, Cal. Acad. Sci. Proc. ser. 4, 15; 5, 219, 1926.
- Stictia sombrana 30-31, trifasciata 24**  
 nParker, P. U. S. N. M. 75; 5, 1929.
- Stictiella terlinguae**  
 nFox, Pan-Pac. Ent. 4, 103-104, 1928.
- Stictocephala festina (Three-cornered alfalfa hopper)**  
 Watson, Fla. Dept. Agr. Quar. B. 30; 3, 59, 1929.
- Stictocephala inermis (Green clover tree hopper)**  
 Pettit, Mich. R. 38, 219, 1925.  
 Pettit, Mich. Bd. Agr. R. 64, 219, '26.  
 iPettit, Mich. Quar. B. 9, 150-160, '27.
- Stictocephala rotundata**  
 iMetcalf, & Bruner, Bklyn. Ent. Soc. B. 20, 206, 1925.
- Stictocephala sp.**  
 Brown, Ariz. R. 33, 242, 1925.
- Stictolobus maculatus**  
 nFunkhouser, J. N. Y. Ent. Soc. 35, 162-163, 1927.
- Stictolobus septemfasciata**  
 nGoding, Trans. Amer. Ent. Soc. 52, 108, '26.
- Stigmaeopsis celarius**  
 Galloway, U. S. D. A. B. 1329, 42, '25.
- Stigmatomma pallipes**  
 Haskins, J. N. Y. Ent. Soc. 36, 179-184, '28.
- Stigmus fraternus (Aphid wasp)**  
 Rau, St. Louis Acad. Sci. Tr. 25, 379-381, 1928.
- Stilbula cynipiformis**  
 biParker & Thompson, Ann. Ent. Soc. Amer. 18, 392-394, 1925.
- Stilpnolia salicis (Satin moth)\***  
 Bailey, Vt. Com. Agr. Bien. R. 13, 52-53, 1926.  
 Barnes, Rur. N. Y. 84, 1381, 1925.  
 Britton, Conn. B. 285, 264-267, 1927.  
 Burgess, J. Ec. Ent. 22, 474-478, 1929.  
 iBurgess & Crossman, U. S. D. A. B. 1469, 1927, 22 p.  
 iGlendenning, Can. Dept. Agr. Pam. n. s. 50, 1924, 14 p.  
 iGlendenning, B. C. Ent. Soc. Proc. 26, 34-38, 1929.  
 O'Kane, N. H. Dept. Agr. Bien. R. 8, 264, 279-280, 1928.  
 iPeirson, Me. For. Serv. B. 5, 111-113, '27.  
 Pollard, Bklyn. Ent. Soc. B. 23, 250, 1928.  
 Spencer, Ont. Ent. Soc. R. 59, 37, '29.  
 iSwaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 19, 1926.  
 iVuillemin, Can. Ent. 57, 97-99, 1925.
- Stilpnolia salicis (Satin moth)\*—Quarantine**  
 Bauer, Amer. Flor. 67, 2005, 1, 1926.  
 C. L. L., Flor. Exch. 60, 761, 1925.  
 C. L. L., Flor. Exch. 63, 863, 1926.  
 Jardine, U. S. Fed. Hort. Bd. NQ 53 rev. '26.  
 Jardine, USDA FHB SRA 84, 71, 1925; 85, 97-100, 1925; 89, 127-131, 1926; 92, 149-150, 1927.  
 iJardine, USDA PQCA SRA 97, 126-130, 1928.  
 Regar, USDA F. H. B. SRA 86, 17-18, '26.  
 Regar, USDA PQCA SRA 94, 16, '28.  
 Wallace, Oreg. Bd. Hort. R. f. 1923, 80-81.  
 — Amer. Flor. 65; 1949, 44, 1925.  
 — Amer. Flor. 65; 1955, 43, 1925.  
 — Amer. Flor. 67; 2002, 4, 1926.  
 — Amer. Flor. 67; 2005, 1, 10, '26.  
 — Amer. Flor. 67; 2006, 10, 1926.  
 — Amer. Forests 32, 56, 1926.  
 — Amer. Lumberm. No. 2843, 68, '29.  
 — Flor. Exch. 63, 572, 1926.  
 — Flor. Exch. 63, 926, 1926.  
 — Flor. Rev. 58, 125-126, 1926.  
 — USDA FHB SRA 84, 71, 1925.  
 — USDA PQCA SRA 97, 126, 1928.  
 — USDA PQCA N. Q. 53 rev. Nov. 1, 1929, 2 p.  
 — USDA PQCA SRA 98, 43, 1929.

**Stizini—revision**

Parker, P.U.S.N.M. 75; 5, 1929, 203 p.

**Stizus occidentalis**

niParker, P.U.S.N.M. 75; 5, 9-10, 1929.

**Stomatoceras atritegula** 131-132, **harri-**  
**soni**, n. n. 72, **palgravei** 59-60

nGirault, Ins. Insc. Mens. 14, 1926.

**Stomatoceroideis gen.**

Girault, Ins. Insc. Mens. 14, 71, 1926.

**Stomatothrips septenarius**

nHood, Psyche 32, 48-49, 1925.

**Stomoxys calcitrans** (**Stable fly**)\*

iBishopp, USFB. 1097, rev. Nov. '27, 17 p.

iBrittain, N. S. Dept. Nat. Resource B. 12, 96-97, 1927.

iCarr, U.S. Naval Med. B. 25, 531-532, '27.

iChandler, Animal Parasites ed. 3, 504-506, 1925.

Cory & Eaton, Md. B. 308, 426, 1929.

Dunn, Amer. Jr. Trop. Med. 9, 502, '29.

iFelt, N. Y. St. Mus. B. 274, 17, 1928.

Gibson, & Twinn, Can. Dept. Agr. B. 112, 13-14, 1929.

Haseman, Mo. B. 254, 1927, 10 p.

Haseman, Mo. Farm. 21, 319, 1929.

McDaniels, Mich. Cir. B. 106, 9-11, '27.

iTao, Amer. J. Hyg. 7, 749-750, 1927.

**Stomoxys sp.**

Chandler, Animal Parasites ed. 3, 507-508, 1925.

Davis, Ind. R. f. 1926, 29, 1927.

**Stoneflies, see Anacroneuria****Stored grain insects**

Back & Cotton, USFB 1260, rev. Dec. 1925, 48 p.

Back & Cotton, J. Agr. Res. 33, 435-452, '26.

Back & Cotton, U.S.F.B. 1483, '26, 30 p.

iBack & Cotton, U.S.F.B. 1483, rev. Dec. 1929, 30 p.

Dean, & Schenk, Internat. Cong. Ent. 4, Tr. 2, 203-211, 1929.

Flint & Frankenfeld, J. Ec. Ent. 21, 143-146, 1928.

ibHorsfall, J. Ec. Ent. 21, 147-150, 1928.

iHungerford, Kans. St. Bd. Agr. Bien. R. 24, 107-113, 1924.

Whitehead, J. Agr. & Hort. 31, 69, '27.

**Stored grain insects—Parasites**

Back & Cotton, U.S.F.B. 1260, rev. Dec. 1925, 42-43.

**Stored products insects**

Britton, Conn. B. 305, 685-686, '29.

Cotton & Roark, Indus. & Engin. Chem. 20, 380-382, 1928.

Curran, Sci. Agr. 7, 166-169, 1927.

Curran, Ont. Ent. Soc. R. 58, 42-43, '28.

Curran, Sci. Agr. 8, 332-335, 1928.

Hale, South Cult. 87; 16, 11, 1929.

Illingworth, Pineapple News, 2; 8, 122-123, 1928.

ibMackie, Cal. C. 282, 1925, 8 p.

Marlatt, USDA Ent. R. f. 1929, 11.

iMetcalf & Flint, Dest. & usef. Ins. 731-766, 1928.

Peet, Food Industries 1, 456-460, '29.

Peet, Food. Indust. 1, 500-503, 1929.

Worsham, Ga. St. Bd. Ent. C. 22, '28, 1 p.

**Strangalia deleta**

Frost, Bklyn. Ent. Soc. B. 24, 14, 1929.

**Strangalia oblitterata**

Hardy & Preece, Pan-Pac. Ent. 4; 2, 62-63, 1927.

**Strangalia plebeja**

Frost, Bklyn. Ent. Soc. B. 23, 135, '28.

**Strategus antaeus**

Knaus, Pan-Pac. Ent. 1, 182, 1925.

**Strategus julianus**

iManter, Trans. Amer. Micr. Soc. 47, 342, 1928.

**Strategus mormon**

Knaus, Ent. News 37, 265, 1926.

**Strategus sp**

iStahl & Scaramuzza, Trop. Pl. Res. Found. B. 10, 15-17, 1929.

**Strategus titanus** (**Sugarcane rhinoceros beetle**)

Box, P. R. Dept. Agr. J. 9, 303, 1925.

Stahl & Scaramuzza, Trop. Pl. Res. Found. B. 10, 16, 1929.

**Stratiomyia melanostoma**

iNeedham & Christenson, Utah B. 201, 26-27, 1927.

**Stratiomyia occidentis**

nBanks, Psyche 33, 32, 1926.

**Stratiomyidae**

Curran, Trans. Roy. Soc. Can. Biol. Sci. 21 (Sec. 5, pt. 1) 191-228, 1927.

**Stratiomyia rufiventris**

nCurran, Amer. Mus. Nov. 324, 1, 1928.

**Stratiothyrea browni**

nCresson, Trans. Amer. Ent. Soc. 51, 240-241, 1925.

- Straussia longipennis* (Sunflower maggot)  
Petch & Armstrong, Quebec Soc.  
Protec. Plts. R. 17, 75, 1925.
- Straw itch mite, *see* *Pediculoides ventricosus*
- Strawberry aphid, *see* *Myzus fragaefolii*
- \*Strawberry crown borer, *see* *Tyloderma fragariae*
- Strawberry crown girdler, *see* *Brachyrhinus ovatus*
- Strawberry crown miner, *see* *Aristotelia fragariae*
- \*Strawberry crown moth, *see* *Aegeria rutilans*
- Strawberry false worm, *see* *Empria maculata*
- \*Strawberry flea beetle, *see* *Haltica ignita*
- Strawberry insects  
Baker, W. Wash. B. 14-W, n. s. 10, 15-16, 1929.  
iChambers, Wis. Hort. 16, 104-105, '26.  
Cory, Canning Trade, 49; 39, 20, 1926.  
Cory, Peninsula Hort. Soc. Tr. 42, 154-156, 1929.  
Davis, Am. Fr. Grow. Mag. 46; 2, 32, '26.  
Forbes, Ill. Nat. Hist. Surv. B. 16, Art. 7, 450, 1927.  
French, Mass. Ext. Leaf. 29, rev. '28, 11-12.  
iHaseman, Mo. C. 168, 1928, 12 p.  
Hendrickson, Cal. Ext. C. 23, 17-18, '28.  
Loree, Mich. Sp. B. 182, 28-29, 1928.  
Marcovitch, Tenn. Ext. Pub. 102, '26, 4 p.  
iMote & Wilcox, Oreg. C. 7, '27, 24 p.  
Palmer, & Strong, Ont. Dept. Agr. B. 335, 21-24, 1928.  
iScholl & Stephens, Tex. Dept. Agr. B. 84, 15-22, 1925.  
Sears, Productive Small Fruit Cult. ed. 2, 116-118, 1925.  
Smith, La. Ext. C. 113, 21-34, 1928.
- Strawberry leaf beetle, *see* *Paria canella*
- \*Strawberry leaf roller, *see* *Ancyliis compactana*
- Strawberry pamera, *see* *Pamera vincta*
- \*Strawberry root aphid, *see* *Aphis forbesi*
- \*Strawberry root-louse, *see* *Aphis forbesi*
- Strawberry root weevil, *see* *Brachyrhinus ovatus*
- \*Strawberry root worm, *see* *Paria canella*
- Strawberry saw fly, *see* *Empria maculata*
- Strawberry thrips, *see* *Frankliniella tritici*
- \*Strawberry weevil, *see* *Anthonomus signatus*
- \*Strawberry whitefly, *see* *Trialeurodes packardii*
- Strebla spp.—Key  
Kessel, J. N. Y. Ent. Soc. 33, 29, 1925.
- Streblidae  
biKessel, J. N. Y. Ent. Soc. 33, 11-33, '25.
- Strepsiptera  
bSalt, Psyche 34, 182-192, 1927.
- Stridulation, *see* Sonification
- Strigodermella knausi  
nBrown, Bklyn. Ent. Soc. B. 20, 200-201, '25.
- \*Striped blister beetle, *see* *Epicauta vittata*
- Striped cabbage flea beetle, *see* *Phyllotreta vittata*
- \*Striped cucumber beetle, *see* *Diabrotica vittata*
- \*Striped cutworm, *see* *Euxoa tessellata*
- \*Striped garden caterpillar, *see* *Polia legitima*
- Striped peach worm, *see* *Gelechia confusella*
- Striped rusty grasshopper, *see* *Schistocerca aleutica*
- Striped weevil, *see* *Metamasius sericeus*
- Strobliomyia, n. gen.  
Townsend, Ins. Insc. Mens. 14, 31, '26.
- Strongylocoris pallipes  
nKnight, Can. Ent. 58, 254, 1926.
- Strongylocoris uniformis  
nVan Duzee, Proc. Cal. Acad. Sci. ser. 4; 14, 396, 1925.
- Strongyloides chapini  
nSandground, J. Parasitol. 12, 75, 1925.
- Strongyloides grassi  
biSandground, Am. J. Hyg. 6, 337-388, '26.
- Strongyloides ratti  
nSandground, J. Parasitol. 12, 73-74, '25.
- Strongyloides spp.  
biSandground, J. Parasitol. 12, 59-80, '25.
- Strophopteryx—n. gen.  
nibFrison, Ill. Nat. Hist. Surv. B. 18, 374, '29.
- Strumigenys, n. subgen.  
Mann, Psyche, 33, 104-105, 1926.
- Strumigenys louisiana  
Smith, Ent. News 38, 309, 1927.
- Strumigenys mirabilis  
niMann, Psyche 33, 105-107, 1926.
- Strymon melinus  
niGunder, Can. Ent. 59, 283-284, 1927.
- biHReinhard, Tex. B. 401, 1929, 36 p.

- Sturmia arrogans* 16-17, *chapini* 11-12, *cordata* 12, *doris* 18, *femineum* 14-15, *fuscicosta* 10-11, *grandis* 13, *imitator* 13-14  
 nCurran, Amer. Mus. Nov. 246, 1927.
- Sturmia inconspicua*  
 Burgess & Crossman, U. S. Tech. B. 86, 113-114, 1929.  
 — J. Ec. Ent. 22, 1003, 1929.
- Sturmia intensica* 17-18, *lavinia* 14, *melita* 12, *munroi* 17-18, *negator* 15  
 nCurran, Amer. Mus. Nov. 258, 1927.
- Sturmia nidicola*  
 ihBurgess & Crossman, U. S. Tech. B. 86, 131-134, 1929.
- Sturmia pulchra* 16-17, *rex* 14-15  
 nCurran, Amer. Mus. Nov. 246, 1927.
- Sturmia scutellata*  
 ihBurgess & Crossman, U. S. Tech. B. 86, 67-76, 1929.
- Sturmia setifacies* 12-13, *ugandana* 16, *vivax* 15-16, *vulnerata* 13-14  
 nCurran, Amer. Mus. Nov. 258, 1927.
- Stylopized Vespidae*  
 Salt & Bequaet, Psyche, 36, 249-282, '29.
- Styloxus ruficeps*  
 nVan Dyke, Pan-Pacific. Ent. 3, 100-101, 1927.
- Subterranean insects, *see* Soil infesting insects
- Sucking dog louse *see* *Linognathus pili-ferus*
- Sucking goat louse, *see* *Linognathus sten-opsis*
- Sucking horse louse, *see* *Haematopinus asini*
- Sugar beet insects  
 Adams, Cal. C. 302, 25-30, 1926.  
 Hawley, Utah C. 54, 1925, 47 p.  
 Rambousek, Internat. Cong. Ent. 4, Tr. 2, 743-745, 1929.
- Sugar-beet leafhopper, *see* *Eutettix tenellus*
- Sugar-beet pest conference  
 Peterson, Facts about sugar 21, 1189, '26.
- Sugar-beet root maggot, *see* *Tetanops aldrichi*
- Sugar-beet thrips, *see* *Heliethrips femoralis*
- Sugar-beet wireworm, *see* *Pheletes californicus*
- Sugarcane aphid, *see* *Sipha flava*
- \*Sugarcane beetle, *see* *Euetheola rugiceps*
- \*Sugarcane borer, *see* *Diatraea saccharalis*
- Sugarcane insects  
 Agee, Facts about sugar 22, 573, 1927.  
 Agee, Planter 80, 64, 1928.  
 Bondar, Facts about Sugar 20, 491, '25.  
 Box, Rept. Trip to P. R. Apr.-Jl '24, 13-14.  
 Box, P. R. Dept. Agr. J. 9, 352, 1925.  
 Brandes, Sugar, 31, 343-344, 354, '29.  
 Earle, Facts about Sugar 22, 967-970, '27.  
 bEarle, Facts about Sugar 22, 1010-1013, 1927.  
 bEarle, Facts about Sugar 22, 1019, '27.  
 bEarle, Sugar cane and its culture, '28, 162-188.  
 Hazelhoff, Facts about sugar 24, 707, '29.  
 Hazelhoff, Proc. 3d Conf. Internat. Soc. Sugar Cane Technol. 1929, 1-8.  
 Holloway, Internat. Cong. Ent. 4, Tr. 2, 448-451, 1929.  
 bHolloway, Internat. Soc. Sugar Cane Technol. Int. Cong. 3, Bul. 5, '29, 38p.  
 Holloway & Haley, Facts about Sugar 20, 82, 1925.  
 Holloway & Haley, Sugar 27, 75-76, '25.  
 Holloway & Haley, J. Ec. Ent. 20, 703-705, 1927.  
 Jarvis, Facts about sugar 20, 610, '25.  
 iJarvis, Ref. Bk. Sugar Indust. of World, f. 1928, 58-61.  
 iJarvis, Internat. Cong. Ent. 4, Tr. 2, 23-33, 1929.  
 iMungomery, Ref. Bk. Sugar Indust. of World, f. 1928, 62-63.  
 bMyers, Harvard Inst. Trop. Biol. & Med. Cont. 3, 69-110, 1926.  
 Pemberton, La. Plant & Sugar Mfg. Co. Ref. Bk. Sugar Ind. of the world, 5; 5, 44-45, 1927.  
 ibSalt, Harvard Inst. Trop. Biol. & Med. Cont. 3, 1926, 110 p.  
 Swezey, Internat. Soc. of Sugar Cane Technol. Proc. 1, 14-16, 1924.  
 bVan Dine, Trop. Plant Res. Found. B. 3, 1926, 16 p.  
 Van Dine & Osborn, Internat. Soc. Sugar Cane Tech. Proc. 2d. Confer. 57-62, 1927.  
 Van Zwaluwenburg, J. Ec. Ent. 19, 664-669, 1927.

## Sugar cane insects—Parasites

ibBox, P. R. Dept. Agr. J. 9, 291-355, '25.

Ishida, Internat. Soc. Sugar Cane  
Tech. Proc. 2d. Confer. 78-79, '27.Sugarcane leafhopper, *see* Perkinsiella  
saccharicidaSugarcane leaf roller, *see* Omiodes acceptaSugarcane mealybug, *see* Pseudococcus  
calceolariaeSugarcane scale, *see* Targionia sacchari\*Sugar-maple borer, *see* Glycobius speci-  
osus

Sulychra mataca

niSchaus, Proc. Ent. Soc. Wash. 31, 55, '29.

Sumac flea beetle, *see* Blepharida rhois

Sunflower insects

Watson, Fla. Dept. Agr. Quar. B. 39; 3,  
129, 1929.Sunflower maggot, *see* Straussia longi-  
pennisSupella supelletilium (Brown-banded  
cockroach)

Whelan, J. Ec. Ent. 22, 421, 1929.

Supertidal animal communities

Weese, Okla. Acad. Sci. Proc. 5, 95-97, '26.

\*Surinam cockroach, *see* Pycnoscelus  
surinamensis

Swammerdam, Jan Jacob

biWeiss, Sci. Mon. 25, 220-227, 1927.

Sweet clover stem borer, *see* Hippopsis  
lemniscataSweet potato caterpillar, *see* Prodenia  
dolichos\*Sweet potato flea beetle, *see* Chaetoc-  
nema confinis

Sweet potato insects

Fackler, Tenn. R. 39, 34, 1927.

Thompson, Sweet potato production,  
1929, 77-88.Sweet-potato leaf beetle, *see* Typophorus  
viridicyaneusSweet potato leaf-miner, *see* Bedellia  
orchilella\*Sweet potato leaf roller, *see* Pilocrocis  
tripunctataSweet potato sawfly, *see* Sterictiphora  
cellularis\*Sweet-potato weevil, *see* Cylas formi-  
carius\*Sweet-potato whitefly, *see* Bemisia in-  
conspicuaSycamore borer, *see* Aegeria resplendensSycamore lacebug, *see* Corythucha ciliataSycamore leaf roller, *see* Ancylis platanana

Sylepta sceletogramma

nDyar, Ins. Insc. Mens. 13, 10, 1925.

Symbiosis—Termites

bCleveland, Quart. Rev. Biol. 1, 51-59, '26.

Symmerista albifrons (Red-humped oak  
caterpillar)

Felt, N. Y. St. Mus. B. 267, 41, 1926.

Ross &amp; Caesar, Ont. Ent. Soc. R. 58, 19, '28.

Symmerista sigea

nSchaus, P. U. S. N. M. 73; 19, 15, 1928.

Symmorphus debilis

iReinhard, Nat. Mag. 10, 99-102, 1927.

Symphoromyia atripes

Hearle, Ont. Ent. Soc. R. 59, 35, 1929.

Symphylidae

iIllingworth, Hawaii Pineapple Cannery  
Assoc. Pineapple News 1, 88, 1927.

Mote, Oreg. C. 65, 20, 1926.

Symphyothrips reticulatus

nWatson, Fla. Ent. 9, 45, 1925.

Sympiesis massasoit

bMuesebeck & Dohanian, U. S. D. A. B.  
1487, 32, 1927.

Sympiesis sp.—Rearing

Cushman, J. Wash. Acad. Sci. 17, 172, '27.

Sympiesomorphellus marmoraticeps

nGirault, Ins. Insc. Mens. 14, 68-69, '26.

Sympycnus bipilus

niVan Duzee, P. U. S. N. M. 74; 10, 28-29, '28.

Sympycnus congensis 9, du 10

nBaequart, Amer. Mus. Novit. 391, '29.

Sympycnus filiformis 27-28, imperfectus  
25-26, longipes 26-27

niVan Duzee, P. U. S. N. M. 74; 10, 1928.

Synaema jocosa

niBanks, B. Harvard Mus. Comp. Zool. 69,  
77-78, '29.Synanthedon, *see* Aegeria

Synaphaeta guexi (Spotted tree borer)

Essig, Insects of Western No. Amer.  
1926, 460.

Hardy &amp; Preece, Pan. Pac. Ent. 3; 1, 40, '26.

Synaligus cardinalis, conspicuous

Miller, Ohio B. 386, 99, 1925.

Synchlora denticularia

Bottimer, J. Agr. Res. 33, 801, 1926.

Syneda alleni

Phipps, J. Ec. Ent. 22, 137-140, '29.

- Synergus campanula* 157-158, *obtusilobae* 142-143, *oneratus* 158  
 Balduf, Can. Ent. 58, 1926.
- Syneta albida* (Fruit tree leaf beetle)  
 Jardine, Oreg. Bien. Rept. 1924-26, 97-98, 1926.  
 Jardine Oreg. Bien. R. f. '26-28, 104-105, 1928.  
 iWilcox, J. Ec. Ent. 18, 686-689, 1925.
- Syneta simplex*  
 Brisley, Pan-Pac. Ent. 4; 2, 60, 1927.
- Syneta* spp.  
 Long, Better Fruit, 23; 11, 26, 1929.
- Synneuria cannonaria*  
 nSchaus, Proc. Ent. Soc. Wash. 29, 111, '27.
- Synodites bifurcatus*  
 nMann, Psyche 32, 170-171, 1925.
- Synoris*, n. gen., *coquilletti*  
 nAldrich, P.U.S.N.M. 69; 22, 12-14, '26.
- Synozia floccosa*  
 inFerris, Can. Ent. 60, 109-111, '28.
- Synteleia* n. gen., *coracina*  
 nFouts, Proc. Ent. Soc. Wash. 28, 178-179, 1927.
- Syntermes grandis*  
 Bequaert, Ent. News 36, 294, 1925.
- Syntomaspis oviperditor*  
 nGahan, Proc. Ent. Soc. Wash. 29, 99-100, 1927.
- Syntomaspis racemariae*  
 Balduf, Can. Ent. 58, 137-138, 1926.
- Synxenoderus*, n. gen., *comosus*  
 List, Proc. Biol. Soc. Wash. 38, 108-110, '25.
- Syrphidae*  
 Curran, Kans. Univ. B. 26; 7, '25, 216 p.  
 Curran, Can. Ent. 59, 205-207, 1927.
- Syrphidae*  
 iCurran & Bryan, Ann. Ent. Soc. Amer. 19, 82-84, 1926.  
 biCurran, Kans. Univ. Sci. B. 15, 7-211, '25.  
 Johnson, Psyche, 36, 370-375, 1929.  
 Kamal, J. Ec. Ent. 19, 721-730, 1926.  
 iShannon, P.U.S.N.M. 70; 9, 1927, 34 p.
- Syrphoctonus foutsii*  
 niCushman, P.U.S.N.M. 72; 13, 12-13, '28.
- Syrphoctonus maculifrons* 721-730, *pacificus* 723, spp. 721-730  
 Kamal, J. Ec. Ent. 19, 1926.
- Syrphophagus smithi*  
 nKamal, Can. Ent. 58, 284-285, 1926.
- Syrphophagus* sp.  
 nKamal, J. Ec. Ent. 19, 726, 1926.
- Syrphus aberrantis*  
 niCurran, Kans. Univ. Sci. B. 15, 90-92, '25.
- Syrphus americanus*  
 Cole, Fla. Hort. Assoc. Proc. 38, 156, '25.  
 iMiller, Fla. B. 203, 460-461, 1929.
- Syrphus canadensis*  
 nCurran, Can. Ent. 58, 172-173, 1926.
- Syrphus laticaudatus*, *laticaudus*  
 niCurran, Kans. Univ. Sci. B. 15, 175-177, '25.
- Syrphus meadii*  
 ibFluke, Wis. Res. B. 93, 20, 28, 29, '29.
- Syrphus montanus* 174-175, *neoperplexus* 93-94  
 nCurran, Kans. Univ. Sci. B. 15, 1925.
- Syrphus opinator*  
 ibFluke, Wis. Res. B. 93, 19, 1929.
- Syrphus osburni* 177-178, *palliventris* 173-174  
 nCurran, Kans. Univ. Sci. B. 15, 1925.
- Syrphus perplexus*  
 ibFluke, Wis. Res. B. 93, 20, 1929.
- Syrphus reedi*  
 nShannon, P.U.N.M. 70; 9, 27-28, 1927.
- Syrphus ribesii*  
 ibFluke, Wis. Res. B. 93, 18, 1929.
- Syrphus rufipunctatus*  
 niCurran, Kans. Univ. Sci. B. 15, 180-181, '25.
- Syrphus* spp.  
 Bauer, Flower Grow. 12, 466, 1925.
- Syrphus torvus*  
 ibFluke, Wis. Res. B. 93, 19, 1929.  
 iZappe, Conn. B. 275, 326-327, 1926.
- Syrphus venablesi*  
 nCurran, Can. Ent. 61, 45-46, 1929.
- Syrphus wiedemanni*  
 ibFluke, Wis. Res. B. 93, 17-18, 1929.  
 ibMiller, Fla. B. 203, 460-461, 1929.  
 Thompson, Fla. Ent. 11, 52, 1928.  
 Watson, Fla. B. 183, 368, 1926.
- Systellapha baracoa* 265-266, *cantata* 266, *cristulata* 265, *flavicaudata* 266-267, *footei* 266, *panamaensis* 268, *placidoides* 265, *pulchrifrons* 267, *spinuliger* 267  
 nCresson, Trans. Amer. Ent. Soc. 52, '26.
- Systelloderus inusitatus* 102, *iowensis* 102-103, *terrenus* 103  
 nDrake & Harris, Ohio J. Sci. 27, 1927.
- Systema basalis*  
 Wolcott, J. Ec. Ent. 20, 429-430, 1927.



**Systema blanda**

iPettit, Mich. Sp. B. 183, 20-22, 1929.

Schoene, Va. R. 1919-27, 49, 1928.

**Systema floridana**

nBlatchley, Can. Ent. 60, 72-73, 1928.

**Systema pallida**

Brisley, Trans. Amer. Ent. Soc. 51, 178-179, 1925.

**Systema taeniata (Banded flea beetle)\***

Brisley, Trans. Amer. Ent. Soc. 51, 179, '25.

iHawley, Utah C. 54, 30-32, 1925.

Thomas, J. Ec. Ent. 20, 236-37, 1927.

Underhill, Va. B. 264, 1928, 20 p.

Fackler, Tenn. R. 39, 34, 1927.

**Systoechus vulgaris**

Criddle, Ont. Ent. Soc. R. 55, 14, 1925.

**Systolomorphella laticincta**

nGirault, Ins. Insc. Mens. 14, 59, 1926.

**Syzeuctus epischniae, sigmoidalis**

nCushman, P. U. S. N. M. 67, Art. 23, 8-10, 1926.

**Tabanidae and disease**

Bequaert, Harvard Inst. Trop. Biol. &amp; Med. Cont. 4, 214-219, 1926.

iChandler, Animal Parasites, ed. 3, 484-490, 1925.

**Tabanidae—Mexico**

Hine, Mich. Univ. Mus. Zool. Occas.

Papers 162, 1925, 35 p.

**Tabanidae—Rearing immature**

ibPhilip, J. Parasitol 14: 243-253, 1928.

**Tabanidae—Rice fields**

Herns, Pan-Pac. Ent. 4, 2; 91-92, 1927.

**Tabaninae—Key**

Hine, Mich. Univ. Mus. Zool. Occas.

Papers 162, 20-21, 1925.

**Tabanus albiscutellatus** 34, **bifloccus** 25-26, **bigoti** 29-30, **caliginosus** 30-31

Hine, Mich. Univ. Mus. Zool. Occas.

Papers 162, 1925.

**Tabanus canadensis**

nCurran, Can. Ent. 59, 82-83, 1927.

**Tabanus carneus** 33, **clarensis** 22-23

nHine, Mich. Univ. Mus. Zool. Occas.

Papers 162, 1925.

**Tabanus cristatus**

niCurran, Can. Ent. 59, 81-82, 1927.

**Tabanus deflippi** 23, **gracilicornis** 26-27,**haemagogus** 31, **hyalinipennis** 32-33,**jilamensis** 23-25

nHine, Mich. Univ. Mus. Zool. Occas.

Papers 162, 1925.

**Tabanus kingii**

iChandler, Animal Parasites ed. 3, 485, '25.

**Tabanus leucaspis** 34-35, **luteoflavus** 31-32

Hine, Mich. Univ. Mus. Zool. Occas.

Papers 162, 1925.

**Tabanus mexicanus (Mexican gadfly), occidentalis**

Dunn, Amer. Jr. Trop. Med. 9, 501, '29.

**Tabanus oculus**

Hine, Mich. Univ. Mus. Zool. Occas.

Papers 162, 23, 1925.

**Tabanus punctifer**

Hearle, Ont. Ent. Soc. R. 59, 35, 1929.

Herns, Pan-Pac. Ent. 4, 91-92, 1927.

**Tabanus punctipennis** 32, **quinquepunctatus** 33

nHine, Mich. Univ. Mus. Zool. Occas.

Papers 162, 1925.

**Tabanus septentrionalis and swamp fever**

Scott, Wyo. B. 138, 30, 1924.

**Tabanus spp.—Ark.**

Gray, Ark. B. 221, 36-37, 1927.

**Tabanus subruber** 29, **unistriatus** 28

Hine, Mich. Univ. Mus. Zool. Occas.

Papers 162, 1925.

**Tachardiobius, n. gen., nigricans**

Timberlake, P.U.S.N.M. 69, Art. 3, 19-23, 1926.

**Tachina larvarum**

Burgess &amp; Crossman, U.S.D.A. Tech. B.

86, 111-112, 1929.

**Tachina sp.—Beneficial to pecans**

Woodard, Tex. Dept. Agr. B. 81, 182-183, 1925.

**Tachinidae**

biAllen, Ann. Ent. Soc. Amer. 22, 676-690, 1929.

Curran, Amer. Mus. Nov. 258, 1927, 20 p.

Dykens, Facts about Sugar 21, 705, '26.

**Tachopteryx thorevi**

Hine, Ohio J. Sci. 25, 190-192, 1925.

**Tachypterellus quadrigibbus (Apple curculio)\***

Bourne, Mass. Fruit Grow. Assoc. R. 35, 122-123, 1929.

Clark, Iowa Hort. Soc. Tr. 60, 39-42, '25.

iClark, Amer. Fr. Grow. Mag. 47; 5, 4, 21, 1927.

Clark, Iowa Hort. Soc. Tr. 61, 33-35, '27.

Curtiss, Iowa R. f. 1926, 40.

- iFulton, Iowa Hort. Soc. Tr. 60, 36-38, '25.  
 ibFulton, J. Agr. Res. 36, 249-261, 1928.  
 iFulton, Iowa C. 117, 1929.  
 iGibson & Twinn, Can. Dept. Agr. B. 112, 56-57, 1929.  
 Gillette, J. Ec. Ent. 19, 670, 1926.  
 Houser, Proc. Ohio St. Hort. Soc. 62, 51-58, 1929.  
 iPetch, Can. Dept. Agr. Ent. Br. C. 36, 1925, 4 p.  
 Petch & Armstrong, Quebec Soc. Protec. Plants R. 17, 73-74, 1925.  
**Tachypterus**, *see* **Tachypterellus**  
**Tachys albipes**  
 Blatchley, Can. Ent. 57, 161, 1925.  
**Tachysphex terminatus**  
 Rau, St. Louis Acad. Sci. Tr. 25, 188-190, 1927.  
**Tachytrechus guianica**  
 nCurran, Amer. Mus. Nov. 176, 4-5, '25.  
**Tachyura incurva**  
 iPark, Psyche, 36, 202-215, 1929.  
**Taeniptera dilator** 274, **livida** 274, **parens** 273, **volens** 273, **vulpes** 273-274  
 nCresson, Tr. Amer. Ent. Soc. 52, 1926.  
**Taeniopteryx nivalis**  
 IbFrison, Ill. Nat. Hist. Surv. B. 18, 360, '29.  
**Taeniorhynchus pertubans**  
 Beyer, La. St. Bd. Health Quar. B. 16: 3, 148-157, 1925.  
**Taeniorhynchus sp.**  
 Twinn, Quebec Soc. Protec. Pl. R. 18, 91, 1926.  
**Taeniothrips albipennis**  
 nMoulton, Pan-Pac. Ent. 5, 129-131, '29.  
**Taeniothrips inconsequens** (Pear thrips)\*  
 Crosby, et al, N. Y. C. B. 498, 52, 1929.  
 ibEssig, Insects of West. No. Amer. 1926, 189-190.  
 Jardine, Oreg. Bien. R. 1924-26, 98, '26.  
 Jardine, Oreg. Bien. R. f. 1926-28, 105, '28.  
 Lewis, Cal. Cult. 70, 604, 1928.  
 Munding, Proc. N. Y. Hort. Soc. 72, 144, 1927.  
 Shinn, Better Fruit 22: 11, 14, 1928.  
**Taeniothrips pearsalli**, **pingreei**  
 niMoulton, Bklyn. Ent. Soc. B. 22, 191-193, 1927.  
**Taeniothrips pyri**, *see* **Taeniothrips inconsequens**  
**Taeniothrips tahoei**  
 niMoulton, Brooklyn Ent. Soc. B. 22, 190-191, 1927.  
**Tahiti coconut weevil**, *see* **Diocalandra taitensis**  
**Talima aurora** 84, **filifera** 85, **ieco** 85, **ingenour** 84  
 nDyar, Ins. Insc. Mens. 14, 1926.  
**Talima insulla** 548, **merilone** 548, **sisypha** 548  
 nDyar, J. Wash. Acad. Sci. 17, 1927.  
**Talima spp.—Key**  
 Dyar, Ins. Insc. Mens. 14, 83-85, 1926.  
**Talima varians**  
 Dyar, J. Wash. Acad. Sci. 17, 548, '28.  
**Tallula baboquivarialis**  
 nBarnes & Benjamin, Insc. Ins. Mens. 14, 9, 1926.  
**Talmeca agathosa**, **dabuisa**  
 nSchaus, P. U. S. N. M. 73; 19, 35-36, '28.  
**Talponia**, n. gen.  
 iHeinrich, U. S. Nat. Mus. B. 132, 19, '26.  
**Tamarisk scale**, *see* **Chionaspis etrusca**  
**Tamnoma sp.**  
 Gemmer, Naval Stores Rev. 38:7, 25, '28.  
**Tanaops basalis**  
 nBrown, Can. Ent. 60, 147, 1928.  
**Tancoa silavia**, **ubalda**  
 niSchaus, Ann. Carnegie Mus. 16; 1, 13-14, 1925.  
**Tanera speciosa**  
 nGirault, Insc. Ins. Mens. 13, 37, 1925.  
**Taniva**, n. gen.  
 iHeinrich, U.S.N.M. B. 132, 106-107, '26.  
**Tanyderus occidentalis**  
 nAlexander, Insc. Ins. Mens. 13, 32, '25.  
**Tanypremna perornata**  
 nAlexander, J. N. Y. Ent. Soc. 37, 90-92, '29.  
**Tanypus apicalis**, **fragilis**  
 nWalley, Can. Ent. 58, 64, 205, 1926.  
**Tanypus okoboji**  
 nWalley, Annals Ent. Soc. Amer. 21:582-585, 1928.  
**Tanypus peleensis**  
 nWalley, Can. Ent. 58, 64, 1926.  
**Tanypus spp.**  
 nWalley, Annals Ent. Soc. Amer. 21, 581-585, 1928.  
**Tanysphyrus atra**  
 nBlatchley, J. N. Y. Ent. Soc. 36, 244-245, 1928.

- Tanytarsus logani*  
 nJohannsen, J. Ent. & Zool. 20, 33-34, 1928.  
 iNeedham & Christenson, Utah B. 201, 23-24, 1927.
- Taphacris bittaciformis*  
 Cockerell, Proc. Ent. Soc. Wash. 28, 142, 1926.
- Taphrocerus aeneocollis, aeneocupreus*  
 nFisher, P.U.S.N.M. 65, Art. 9, 188, 190, '25.
- Taphrocerus brevicarinatus*  
 nFisher, P.U.S.N.M. 76; 6, 17-19, 1929.
- Taphrocerus elegans*  
 nFisher, P.U.S.N.M. 65, Art. 9, 187, '25.
- Taphrocerus gracilis*  
 iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 193-195.
- Taphrocerus modicus*  
 Fisher, Proc. Ent. Soc. Wash. 27, 144, '25.
- Taphrocerus parvus*  
 nFisher, P. U.S.N.M. 66; 31, 38-39, '25.  
 Fisher, Proc. Ent. Soc. Wash. 27, 144, '25.
- Taphrocerus* spp.—Key 183, subglaber 185, tenuis  
 nFisher, P. U.S.N.M. 65, Art. 9, 184, '25.
- Tapinoma geei*  
 nWheeler, Amer. Mus. Nov. 255, 8, '27.
- Tapinoma melanocephalum*  
 Illingworth, Assoc. Hawaiian Pineapple Cannery Exp. Sta. B. 7, 10, 1926.  
 Stahl & Scaramuzza, Trop. Pl. Res. Found. B. 10, 6-9, 1929.
- Tapinoma rectinotum*  
 nWheeler, Amer. Mus. Nov. 255, 8-9, '27.
- Tapinoma sessile*  
 Smith, Ent. news 37, 52, 1926.  
 nbSmith, Ann. Ent. Soc. Amer. 21, 307-330, 1928.
- Tarabagan louse*  
 Teh, Chun & Pollitzer, Amer. Jour. Hygiene 5, 200-201, 1925.
- Tarabagan (marmot) tick, see Rhipicephalus haemaphysaloides*
- Tarantula*  
 Baerg, Lit. Dig. 94, 68-72, S. 10, 1927.  
 iBaerg, Nat. Mag. 9: 3, 173-176, 1927.  
 iPetrunkévitch, J. Exper. Zool. 45, 367-393, 1926.  
 iPickwell, Nat. Mag. 14; 2, 107-108, '29.
- Tarantula hawk, see Pepsis spp.*
- Targionia dearnessi*  
 Lacroix, Ent. News 37, 249-251, 1926.
- Targionia sacchari* (Sugarcane scale)  
 Myers, Harvard Inst. Trop. Biol. & Med. Cont. 3, 100, 1926.
- \*Tarnished plant bug, see Lygus pratensis*
- Tarsonemus affinis*  
 — J. Parasitol. 12, 116, 1925.
- Tarsonemus approximatus*  
 Doucette, J. Ec. Ent. 22, 423-424, '29.  
 nEwing, Wash. Ent. Soc. Proc. 31, 31-32, '29.
- Tarsonemus bambusarium*  
 Galloway, U.S.D.A.B. 1329, 42-44, '25.
- Tarsonemus latus*  
 ibGarman, Conn. B. 305, 765-766, 1929.  
 Mozzette, Fla. St. Pl. Bd. Quar. B. 9, 121-122, 1925.
- Tarsonemus pallidus (Cyclamen mite)\**  
 Beaulne, Quebec Soc. Protec. Pl. R. 20, 85, 1928.  
 iBritton & Zappe, Conn. B. 292, 172, '27.  
 Dahlgren, Iowa Hort. Soc. Trans. 60, 190, 1925.  
 Darrow, Fruits & Gardens, 27; 7, 13, '29.  
 Dustan, Quebec Soc. Protec. Pl. R. 21, 46, 53, 1929.  
 Lieber, Ind. Dept. Conserv. R. 9, 55, '27.  
 M. W., Florists' Rev. 58, 34, 1926.  
 Miller, Ohio B. 386, 145-146, 1925.  
 Ross & Caesar, Ont. Ent. Soc. R. 59, 20-21, 1929.  
 Whitcomb, Flor. Exch. 66, 1503, 1927.
- Tarsonemus spinipes (Cane rust mite)*  
 bEarle, Facts about Sugar 22, 1011, '27.
- Tarsonemus woodi*  
 ibAnderson, J. Ec. Ent. 21, 404-407, 1928.
- Tatuomyia, n. gen., batesi*  
 Shannon, P.U.S.N.M. 69, Art. 9, 48-49, '26.
- Taxigramma gen., heteroneura*  
 Allen, P.U.S.N.M. 68, Art. 9, 82-84, '26.
- Taxonomic workers—Necessary*  
 Dyar, Proc. Ent. Soc. Wash. 30, 102-103, 1928.
- Taxonomy—Entomology*  
 Bradley, Science n. s. 68, 81-82, 1928.  
 Caudell, Proc. Ent. Soc. Wash. 29, 129-132, 1927.  
 Corporaal, Internat. Cong. Ent. 4, Tr. 2, 795-796, 1929.  
 Holland, Internat. Cong. Ent. 4, Tr. 2, 688-694, 1929.  
 Horn, Internat. Cong. Ent. 4, Tr. 2, 34-51, 1929.  
 Horn, Ent. News 39, 172-178, 1928.

- McAtee, Proc. Ent. Soc. Wash. 28, 68-70, 1926.  
 McAtee, Proc. Ent. Soc. Wash. 31, 138-139, 1929.  
 Rohwer, Baker & Ball, J. Wash. Acad. Sci. 16, 53-67, 1926.  
 Rohwer, Ann. Ent. Soc. Amer. 20, 423-428, 1927.  
 Jeannel, Internat. Cong. Ent. 4, Tr. 2, 797-800, 1929.  
 Muir, Internat. Cong. Ent. 4, Tr. 2, 600-604, 1929.  
 Silvestri, Internat. Cong. Ent. 4, Tr. 2, 52-54, 1929.  
 Waterston, Internat. Cong. Ent. 4, Tr. 2, 695-699, 1929.
- Tear gas, *see* Insecticides—Chlorpicrin—Fumigation
- Tegeticula alba* (Yucca moth)\*  
 Pammel, Science 61, 414-415, 1925.  
 iSavin, Nat. Hist. 25, 276-281, 1925.
- Tegostoma summaperta*  
 nDyar, Ins. Insc. Mens. 13, 9, 1925.
- Telabis nevadensis*  
 nBlaisdell, Proc. Cal. Acad. Sci. ser. 4, 14, 372-373, 1925.
- Telea polyphemus* (Polyphemus moth)\*  
 iClark, Sci. Mo. 23, 393-394, 1926.  
 Duran, Pan-Pac. Ent. 1, 142, 1925.  
 Miller, Ent. News 38, 13, 1927.  
 iPeirson, Me. For. Serv. B. 5, 42, 1927.  
 Rau, St. Louis Acad. Sci. Tr. 26: 138-143, 1929.  
 iRobinson, J. Agr. Res. 37, 744-748, '28.  
 Rummel, Brooklyn Ent. Soc. B. 21, 156-157, 1926.  
 Wolcott, Porto Rico Dept. Agr. J. 9:47, '25.
- Telegonus chiriquensis* 285, *galesus* 281, *jariba* 282, *mura* 276-277, *pacasa* 278, *panche* 280, *parisi* 277, *tucuti* 271  
 niWilliams, Tr. Amer. Ent. Soc. 53, 1927.
- Telemona gibbera*  
 nBall, Wash. Acad. Sci. J. 15, 204, 1925.
- Telemona spiniger*  
 niHaviland-Brindley, Zoologica, N. Y. 6, 257, 1925.
- Telemona tarda* 204, *tiliae* 203-204, *vestita* 205, *woodruffi* 205  
 nBall, Wash. Acad. Sci. J. 15, 1925.
- Telenomus biproruli*  
 nGirault, Ins. Insc. Mens. 14, 137-138, '26.
- Telenomus cosmopeplae*  
 Balduf, J. Ec. Ent. 19, 829-841, 1926.  
 nGahan, Proc. Ent. Soc. Wash. 28, 67, '26.
- Telenomus glabriscribus*  
 nGirault, Ins. Insc. Mens. 14, 138, 1926.
- Telenomus megacephalus*  
 iMiller, Fla. Ent. 12, 17-20, 1928.
- Teleonemia belfragii*  
 Drake, Ann. Carnegie Mus. 16, 376, 1926.
- Teleonemia cylindricornis*  
 Drake, Fla. Ent. 9, 38-39, 1925.
- Teleonemia scrupulosa*  
 Drake, Ann. Carnegie Mus. 16, 376, 1926.
- Teleorhinus floridanus*  
 nKnight, Can. Ent. 58, 254, 1926.
- Telephae velox*  
 Blake, Ill. Biol. Monog. 10: 4, 77, 1926.  
 Weese, Ill. Biol. Monog. 9, 4, 13, 1924.
- Telephone pole insects  
 Snyder, Telephony 91: 12, 14-20, 1926.
- Telmatetix aztecus*  
 bNabours & Snyder, Genetics 13, 126-132, 1928.
- Telonaca tremulata*  
 nBall, Wash. Acad. Sci. J. 15, 203, 1925.
- Telostylinus bivittatus, philippinensis*  
 nCresson, Tr. Amer. Ent. Soc. 52, 258-259, 1926.
- Telphusa latifasciella*  
 Doak, Ind. Acad. Sci. Proc. 43, 444, 1928.
- Telsimia emarginata, nitida*  
 nChapin, Proc. Biol. Soc. Wash. 39, 131-132, 1926.
- Telsimini*  
 Chapin, Proc. Biol. Soc. Wash. 39, 129, '26.
- Temnillus mexicanus* 64, spp.—Key 63  
 Barber, Proc. Ent. Soc. Wash. 27, 1925.
- Temnochila virescens*  
 Keen, Cal. Dept. Nat. Resources B. 7, 74, 1928.  
 Mutchler & Weiss, N. J. Dept. Agr. C. 154, 3, 10, 1929.
- Temnopsophus and Pseudebaeus*—n. aberrations  
 Hatch, Ann. Ent. Soc. Amer. 20, 366-367, 1927.
- Temnostethus fastigiatus*  
 nDrake & Harris, Proc. Biol. Soc. Wash. 39, 40-41, 1926.

**Temperature and insects**

- Alberts & Flint, J. Ec. Ent. 18, 771-776, '25.  
 ibCarter, J. Agr. Res. 31, 165-192, 1925.  
 bChapman, Amer. Nat. 62, 298-310, '28.  
 ibCook, J. Ec. Ent. 20, 769-782, 1927.  
 Crozier & Federighi, J. Gen. Physiol. 7, 565-570, 1925.  
 bCutright, Ann. Ent. Soc. Amer. 20, 255-261, 1927.  
 Dunham, J. Ec. Ent. 22, 798-801, 1929.  
 bGeist, Annals Ent. Soc. Amer. 21, 614-618, 1928.  
 Gibson & Twinn, Can. Dept. Agr. B. 112, 9, 1929.  
 bGraham, Ecology, 6, 401, 1925.  
 Kennedy, Ann. Ent. Soc. Amer. 20, 87-106, 1927.  
 bKnight, W. Va. B. 208, 1927, 62 p.  
 Payne, Ecology 7; 1, 99-106, 1926.  
 bPayne, Quart. Rev. Biol. 1, 270-282, '26.  
 Payne, J. Morphol. 43, 521-546, 1927.  
 Payne, Can. Ent. 57, 157-158, 1925.  
 Payne, Biol. Bul. 52, 449-457, 1927.  
 Payne, Ecology 8, 194-196, 1927.  
 bPayne, Ann. Ent. Soc. Amer. 22, 601-630, 1929.

**Temperature — determining by Thermocouple method**

- iRobinson, Ann. Ent. Soc. Amer. 20, 513-521, 1927.  
 S C W, Tychos, Rochester, 19; 4, 152-153, 1929.

**Tenagobia pulchra**

- niHungerford, Proc. Ent. Soc. Wash. 29, 189-190, 1927.

**Tenebrio molitor (Yellow meal worm)\***

- Back & Cotton, U. S. F. B. 1260: rev. Dec. 1925, 24-27.  
 iBrittain, N. S. Dept. Nat. Resource B. 12, 121-122, 1927.  
 biCotton, Ann. Ent. Soc. Amer. 20, 81-86, '27.  
 iCotton, Miller's Rev. 93; 9, 36-38, '29.  
 libCotton, & St. George, USDA, Tech. B. 95, 1929, 38 p.  
 Ferwerd, Genetics 11, 1-110, 1928.  
 iGibson & Twinn, Can. Dept. Agr. B. 112, 30, 1929.  
 Herrick, Rur. N. Y. 87, 796, 1928.  
 Maheux, Quebec Soc. Protec. Pl. R. 18, 105, 1926.  
 biNelson & Smith, J. Parasitol. 12, 47-50, '25.

**Tenebrio obscurus (Dark meal worm)\***

- iBack & Cotton, U. S. F. B. 1260, rev. Dec. 1925, 28.  
 biCotton, Ann. Ent. Soc. Amer. 20, 81-86, '27.  
 iCotton, Miller's Rev. 93; 9, 36-38, '29.  
 libCotton & St. George, USDA Tech. B. 95, 1929, 38 p.  
 iGibson & Twinn, Can. Dept. Agr. B. 112, 30, 1929.

**Tenebrio spp.—Taxonomic studies**

- biSt. George, Proc. Ent. Soc. Wash. 28, 102-111, 1926.

**Tenebrioides americanus, corticalis**

- Mutchler & Weiss, N. J. Dept. Agr. C. 154, 6-7, 1929.

**Tenebrioides mauritanicus (Cadelle)\***

- Back & Cotton, U. S. F. B. 1260; rev. Dec. 1925, 28-30.

- iGibson & Twinn, Can. Dept. Agr. B. 112, 34, 1929.

- Mutchler & Weiss, N. J. Dept. Agr. C. 154, 4-6, 1929.

**Tenebrioides sp.**

- Mutchler & Weiss, N. J. Dept. Agr. C. 154, 13, 1929.

**Tenebrionidae**

- Blaisdell, Cal. Acad. Sci. Proc. ser. 4, 14, 369-390, 1925.

**biWakeland, Ida. Res. B. 6, 1926, 52 p.****Tenerus fimbriatus—Congo Expedition**

- nChapin, Amer. Mus. Nov. 151, 3, 1924.

**Tenodera sinensis (Chinese mantis)\***

- Caudell, Ent. News 39, 127, 1928.

**Tent caterpillar (Eastern tent caterpillar)\***

see *Malacosoma americana*

**Tentamen names**

- Forbes, Ent. News 39, 116-119, 1928.  
 Holland, Ent. News 39, 50-59, 1928.

**Tenthredella cockerelli, sp.**

- nRohwer, P.U.S.N.M. 68, Art. 8, 9-11, '25.

**Tenthredinoidea—Macgillivray types**

- Frison, Ill. Nat. Hist. Surv. B. 16, 234-270, 1927.

**Tenthredo fuscocostalis 7-8, kongauana 8-9, kudiana 9**

- nRohwer, Proc. U.S.N.M. 68, Art. 8, '25.

**Tenthredomyia—n. gen., 50, abbreviata**

- 51, anchoralis 51  
 Shannon, Ins. Insc. Mens. 13, 1925.

**Tenthredomyia brunettii**

- nShannon, J. Wash. Acad. Sci. 17, 45-46, '27.

**Tenthredomyia grahami**

nShannon, Ins. Insc. Mens. 13, 53, '25.

**Tenthredomyia hungkingi** 46, mellivora 43

nShannon, J. Wash. Acad. Sci. 17, 17, '27.

**Tenthredomyia saundersi** 54, snowi 51,

spp.—Key 50, tridens 51

Shannon, Ins. Insc. Mens. 13, 1925.

**Tenuipalpus californicus** (Orange fruit mite)

Delcurto, Halstead & Halstead, Tex.

Dept. Agr. B. 79, 94-95, 1925.

Yothers, Fla. Ent. 10; 1, 2-3, 1926.

**Tenuipalpus lineola**

Miller, Ohio B. 386, 102-103, 1925.

**Tephрина intimidaria, sellimima**

nDyar, Ins. Insc. Mens. 14, 186-187, '27.

**Terapus mexicanus**

nMann, J. Wash. Acad. Sci. 16, 448-449, '26.

**Teredo batilliformis**

bnClapp, Proc. Amer. Acad. Arts & Sci. 59, 282-284, 1924.

**Teredo digensis**

Miller, Ecology 7, 249, 1926.

**Teredo navalis** (European pile worm)

biClapp, St. Louis Acad. Sci. Tr. 25, 81-89, '25.

iHunt, Amer. For. & For. Life 32, 655-658, 1926.

Miller, Ecology 7, 249, 1926.

**Teredo somersi**

bnClapp, Proc. Amer. Acad. Arts & Sci. 59, 284-287, 1924.

**Teredo sp.**

iFritz, Engineering News—Record 95, 503, 1925.

i—Engineering News—Record 94, 189, 1925.

**Terias arbela, tenera**

niAvinoff, Annals Carnegie Mus. 16, 363-364, 1926.

**Teriocolias andina**

nForbes, J. N. Y. Ent. Soc. 36, 81-82, '28.

**Teriocolias sp.**

ibKlots, J. N. Y. Ent. Soc. 36, 113-118, '28.

**Termes akengeensis**

niEmerson, Am. Mus. Nat. Hist. B. 57, 464-465, 1928.

**Termes bellicosus**

Spelling, Lit. Dig. Feb. 20, 1926, 27.

**Termes bequaerti**

niEmerson, Am. Mus. Nat. Hist. B. 57, 454-455, 1928.

**Termes flavipes**

Guyton, Pa. Dept. Agr. Gen. B. 432, 12, '27.

Watson, Fla. B. 183, 414-415, 1926.

Watson, Fla. Dept. Agr. Quar. B. 39: 3; 133-134, 1929.

**Termes fulleri, malelaensis**

niEmerson, Am. Mus. Nat. Hist. B. 57, 463-466, 1928.

**Termes praevalens**

nJohn, Proc. Biol. Soc. Wash. 39, 143, '26.

**Termes schmitzi** 455-457, sjostedti evansi

—n. var. 462-463, snyderi 466-467

niEmerson, Am. Mus. Nat. Hist. B. 57, '28.

**Termes sp.**

Snyder, J. Wash. Acad. Sci. 19, 44, '29.

**Termes stanleyvillensis**

niEmerson, Am. Mus. Nat. Hist. B. 57, 455, 1928.

**Termites**

Ansell, Amer. City 40, 145-146, Jan. '29.

Ansell, Lit. Dig. 100, 31-32, Feb. 2, '29.

bBeckwith & Light—Science n. s. 66: 656-657, Dec. 30, 1927.

Brittain, Res. Devpmt. Cyanogas Calcium Cyanide Sec. 4, 115-124, 1927.

iClark, Sci. Mo. 24, 548-555, 1927.

Colline, Am. J. Sci. ser. 5; 9, 406-410, '25.

Delcurto, Halstead & Halstead, Tex. Dept. Agr. B. 79, 99, 1925.

Essig, Insects of Western No. Amer. 1926, 112-119.

Fritz, Jour. For. 26, 1054-1056, 1929.

iFullaway, Timberman 28: 9, 170-176, '27.

Guyton, Pa. Dept. Agr. Gen. B. 432, 12, '27.

iHungerford, Kans. St. Bd. Agr. Bien. R. 24, 95-97, 1924.

Jacobsen, Cal. Dept. Agr. Mo. B. 17: 658, 1928.

Jarvis, Facts about Sugar 21, 756, 1926.

Keen, Cal. Dept. Nat. Resources B. 7, 93, 1928.

iKelly, Kans. Ext. B. 62, 33-36, 1929.

iKern, Jour. Amer. Inst. Architects 13, 354, 1925.

Li, Ind. Dept. Conserv. R. 7, 46-49, '25.

iLight, Cal. Univ. Pub. Ent. 4; 5, 75-88, '27.

ibLight, Cal. C. 314, 1929, 28 p.

Light, Calif. Cult. 78, 339, 1929.

bLight, Pan-Pac. Ent. 6, 67-71, 1929.

iLyle, Miss. St. Pl. Bd. Q. B. 7, 11-16, 1927.

iMiller, Ill. Nat. Hist. Surv. Ent. Ser. C. 10, 1926, 8 p.

**Termites *Cont'd***

- iMiller, Ill. Nat. Hist. Surv. Ent. Ser. C. 11, (1928) 12 p.  
 Nichols, Jour. Ent. & Zool. 21, 123, '29.  
 Onrubia, Facts about Sugar 21, 707, '26.  
 Pettit, Mich. C. B. 63, 1924, 2 p.  
 Snyder, Am. Inst. Arch. J. 13, 353-354, '25.  
 iSnyder, Better Homes & Gardens 4: 2, 32, 1925.  
 Snyder, Citrus Indus. 6; 4, 14-17, 1925.  
 Snyder, Lumber Mfg. & Dealer 77: 12, 27, 67, 1926.  
 iSnyder, Nat. Mag. 7; 1, 23-25, 1926.  
 ibSnyder, Quart. Rev. Biol. 1: 4, 522-551, '26.  
 iSnyder, Timberman 28: 1, 254, 1926.  
 Snyder, Trop. Woods 8, 203, 1926.  
 iSnyder, U. S. F. B. 1472, 1926, 22 p.  
 Snyder, Sci. Amer. 136, 290-291, 1927.  
 iSnyder, Agr. Eng. 9, 240-242, 1928.  
 Snyder, Engineering News Rec. 100: 7, 274-276, 1928.  
 Snyder, Amer. Wood Preserv. Assoc. Proc. 25, 18-30, 1929.  
 Snyder, La Hacienda 24, 154, 1929.  
 Snyder, La Hacienda 24, 238-239, '29.  
 iSnyder, Mid-Pac. Mag. 37: 1, 17-26, '29.  
 iSnyder, Miss. St. Pl. Bd. Quar. B. 9: 1-20, 1929.  
 iSnyder, Nat. Mag. 13, 84-87, 1929.  
 Snyder, Sci. Mo. 28, 143-151, Feb. '29.  
 Snyder, Termite Invest. Co. R. on Symposium on termite problems '29, 5-11.  
 iSnyder, U. S. D. A. Leaf. 31, 1929, 5 p.  
 iWahl & Powell, Res. Devpmt. Cyanogas Calcium Cyanide, Sect. 4, 125-140, 1927.  
 Watson, Fla. Farm. 32; 2, 19, 1929.  
 iWest, House B. 63: 632, May 1928.  
 Wright, Pac. Rur. Press, 119, 77, '30.
- Termites and ant spirochaetes**  
 iDamon, J. Bact. 11, 31-36, 1926.
- Termites—Architecture**  
 iSnyder, Sci. Mo. 28, 2, 143-158, 1929.
- Termites—Building codes**  
 iSnyder, Am. City, 33, 569-571, Nov. '25.  
 iSnyder, Cal. Agr. Mo. B. 16, 531-536, '27.  
 iSnyder, J. Ec. Ent. 20, 316-321, 1927.  
 Snyder, J. Wash. Acad. Sci. 17, 178, '27.  
 Snyder, Engin. & Contr. 68, 78, F. '29.  
 bSnyder, Internat. Cong. Ent. 4, Tr. 2, 268-277, 1929.

**Termites—Ant proofing house**

- Lit. Dig. 85: 26, Je. 27, 1925.  
 — Lumber Mfg. & Dealer 87: 11, 22, '26.  
 — J. Ec. Ent. 18, 762, 1925.

**Termites in buildings**

- iSnyder, J. Amer. Inst. Architects, 13, 277-279, 1925.  
 Snyder, Science n. s. 61: 389, Apr. 10, '25.  
 Snyder, Nat. Mag. 10, 310, 1927.  
 — Engin. News 97, 267, 426, 1926.

**Termites and "Universal ant exterminator"**

- Jarvis, Facts about Sugar 23: 36, 850, '28.

**Termites, substratum communication**

- iEmerson & Simpson, Science 69, 648-649, 1929.

**Termites and intestinal protozoa**

- iCleveland, Biol. B. 48, 282-287, 1925.  
 bCleveland, Quart. Rev. Biol. 1, 51-59, 1926.  
 bCleveland, Biol. B. 54, 231-237, 1928.  
 ibLight, Cal. Univ. Pub. Zool. 29; 18, 467-492, 1927.  
 ibLight & Sanford, Cal. Univ. Pub. Zool. 31; 12, 269-274, 1928.

**Termites—Protozoan fauna**

- Light & Sanford, Proc. Soc. Exp. Biol. & Med. 25, 95-96, 1927.

**Termites of Arizona**

- Snyder, Cal. Univ. Pub. Zool. 28: 21, 389-397, 1926.

**Termites—Belgian Congo & Cameroun**

- ibEmerson, Am. Mus. Nat. Hist. B. 57, 401-574, 1928.

**Termite problem—California Univ. to study—\$50,000.00**

- Timberman 29: 12, 106, 1929.  
 — Timberman 30: 11, 168, 1929.

**Termite castes**

- ibCleveland, Biol. B. 48, 295-306, 1925.  
 ibSnyder, Proc. Biol. Soc. Wash. 38, 57-67, 1925.  
 ibSnyder, Quar. Rev. Biol. 1, 522-552, '26.

**Termites—Cellulose diet**

- Cleveland, Biol. B. 48, 289-293, 1925.  
 — Lit. Dig. 85: 60-62, Je. 20, 1925.  
 — Trop. Agr. 72, 315-316, 1929.

**Termites—Communication**

- Emerson, Internat. Cong. Ent. 4, Tr. 2, 722-727, 1929.  
 McIndoo, Smithson, R. f. 1928, 555, '29.

- Termites—Communism**  
iSnyder, Sci. Mo. 21: 466-477, 1925.
- Termites—Experimental trans-faunation**  
Light & Sanford, Cal. Univ. Pub. Zool. 31: 12, 269-274, 1928.
- Termites—Fossil**  
ibSnyder, Proc. Biol. Soc. Wash. 38, 149-165, 1925.
- Termites—Grapes**  
Bonnet, Calif. Grape Grow. 9: 1, 5, '28.
- Termites—Hawaii**  
Kurisaki, Planter & Sugar Manfg. 77, 135, 1926.  
— Planter & Sugar Manfg. 77, 315, '26.
- Termites—Mulford Exploration Amazon**  
iSnyder, P. U.S.N.M. 68, Art. 14, '26, 76 p.
- Termites—Orchards**  
iSnyder, Citrus Industry 6; 4, 14-17, 1925.  
Weldon, Pac. Rur. Press, 118, 463, '29.
- Termites—Pecans**  
Woodard, Texas Dept. Agr. B. 81, 179-180, 1925.
- Termites—Protecting wood from**  
iLyle, Miss. St. Plt. Bd. Quar. B. 7: 1, 11-12, 1927.  
— Engin. & Contracting (Railways) 63, 141, 1925.
- Termites—Quarantine**  
Planter & Sugar Manfg. 77, 95, 1926.
- Termites—Research work**  
— Science n. s. 61: 273, Mar. 12, '25.
- Termites—Resistance tests**  
— Tropical Woods No. 8, 2-3, Dec. 1, '26.
- Termites—Social**  
Cleveland, Forum 74: 32-40, J1, 1925.
- Termites—Subterranean**  
Snyder, Science 61, 389, 1925.
- Termites—Sugar cane**  
bEarle, Facts about Sugar 22, 1010, '27.  
— Facts about Sugar 20, 323, 1925.
- Termites—Swarming**  
Essig, Pan-Pac. Ent. 3, 92, 1926.  
Essig, Pan-Pac. Ent. 3, 109, 1927.
- Termites—Symbiosis**  
Cleveland, Quart. Rev. Biol. 1: 1, 51-60, '26.
- Termites—Treasury vaults—U. S.**  
Snyder, Nat. Mag. 7, 23-25, 1926.
- Termites—Triconomypha campanula in**  
Cleveland, Biol. B. 48, 282-287, 1925.
- Termitidae**  
i— Amer. Forests 31, 436, 1925.  
Meinecke, Timberman 27: 11, 115, '26.
- Termitidae—list**  
Snyder, J. Wash. Acad. Sci. 15, 162, '25.
- Termitonicus n. gen., mahout**  
Mann, Proc. Ent. Soc. Wash. 28, 153-154, 1926.
- Termitospectrum n. gen., thoracicum**  
Mann, Proc.—Ent. Soc. Wash. 28, 154-155, 1926.
- Termopsis gen.**  
Snyder, Proc. Biol. Soc. Wash. 38, 157, '25.
- Termopsis angusticollis**  
Andrew & Light, Cal. Univ. Pub. Zool. 31: 19, 433-440, 1929.  
Keen, Cal. Dept. Nat. Res. Div. For. B. 7, 93, 1928.
- ibLight, Calif. C. 314, 15-16, 1929.
- Termopsis angusticollis—Losses from**  
iEssig, Insects of West. No. Amer. 1926, 115-116.  
iLight, Timberman 30: 11, 37, 38, 162-166, 1929.
- Termopsis nevadensis**  
ibLight, Cal. C. 314, 15-16, 1929.  
Light, Pan-Pac. Ent. 6, 68-69, 1929.
- Termopsis sp.—Castes**  
Heath, J. Morphol. 43, 387-418, 1927.  
iHeath & Wilbur, Biol. B. 53, 145-154, '27.
- Termopsis sp.—Cal. Fertile soldiers**  
iHeath, Biol. B. 54, 324-326, 1928.
- Termopsis sp. and intestinal protozoa**  
ibAndrews, Biol. B. 49, 69-85, 1925.  
iCleveland, Biol. B. 48, 309-325, 1925.
- \*Terrapin scale, see Lecanium nigrofasciatum**
- Tetanocera vicina**  
nBrimley, Ent. News 36, 75, 1925.
- Tetanops aldrichi (Sugar beetroot maggot)**  
Hawley, Utah B. 192, 43, 1925.  
iHawley, Utah C. 54, 40-41, 1925.
- Tetracampe aligherini**  
nGirault, Ins. Insc. Mens. 14, 127, 1926.
- Tetracha gen. 57, carolina 59, euphratica 58, virginica 60,**  
iHamilton, P. U.S.N.M. 65, Art. 17, 1925.
- Tetracnemus pretiosus**  
niTimberlake, Univ. Cal. Pubs. Ent. 5: 2, 5-11, 1929.
- Tetragoneura longicauda**  
niVan Duzee, Cal. Acad. Sci. Proc. 17: 2, 36, 1928.



- Tetraleurodes mori** (Mulberry whitefly)\*  
iBritton, Conn. B. 305, 763, 1929.  
Watson, Fla. B. 183, 347, 1926.
- Tetralonia annae**  
Cockerell, Amer. Mus. Nov. 113, 2, '24.
- Tetralopha cataldusa** 10-11, *gybriana* 11,  
*hermasalis* 10  
niSchaus, Annals Carnegie Mus. 16; 1, '25.
- Tetralopha robustella**  
Britton, Conn. B. 305, 680, 1929.  
Felt, N. Y. St. Mus. B. 274, 163-164, '28.
- Tetralopha subcanalis**  
iLeiby, N. C. Dept. Agr. B. Feb. 1925,  
27-30.
- Tetramorium antipodum**  
nWheeler, Amer. Acad. Arts & Sci. Proc.  
62; 4, 143-145, 1927.
- Tetramorium caespitum** (Pavement ant)\*  
nWheeler, Amer. Mus. Nov. 255, 7, '27.  
Wheeler, Psyche, 34, 164-165, 1927.
- Tetramorium guineense**  
Illingworth, Assoc. Hawaiian Pineapple  
Canners Exp. Sta. B. 7, 11, 1926.
- Tetraneura graminis**  
Cutright, Ohio B. 387, 200, 1925.
- Tetranychus bimaculatus**  
Balch, Amer. Flor. 70; 2066, 10, 1928.  
iBritton, Conn. B. 305, 764-765, 1929.  
Frost, Penn. St. B. 196, 32, 1925.  
Klein, Cal. Cult. 67, 298, 1926.  
Lieber, Ind. Dept. Conserv. R. 6, 39, '25.  
Whitcomb, Market Gr. Jour. 39, 824, '26.
- Tetranychus californicus**  
inMcGregor, Proc. Ent. Soc. Wash. 30, 11,  
1928.
- Tetranychus citri**  
Hume, Cultivation of Citrus Fruits, '26,  
457, 1926.  
Watson, Fla. B. 183, 382, 1926.  
Yothers, Fla. Ent. 10; 1, 1, 1926.
- Tetranychus flavus**  
Gilliat, Ont. Ent. Soc. R. 59, 11-12, '29.
- Tetranychus multigituli**  
Miller, Ohio B. 386, 109, 1925.
- Tetranychus mytiliaspidis**, *see* *Parate-*  
*tetranychus citri*
- Tetranychus pacificus** (Pacific red spider)  
Jacobsen, Cal. Dept. Agr. Mo. B. 17,  
658, 1928.
- Tetranychus populi**  
Cooley, Mont. B. 170, 22, 1925.
- Tetranychus sex-maculatus** (Six-spotted  
mite)  
Hume, Cultivation of Citrus Fruits,  
1926, 455-457, 1926.  
Thompson, Fla. Ent. 12, 40-41, 1928.  
Watson, Fla. B. 183, 381-382, 1926.
- Tetranychus spp.**  
Watson, Fla. B. 183, 381, 1926.  
Yetter, Colo. Ent. C. 47, 16, 1925.
- †**Tetranychus telarius** (Red spider)  
Bennett, Mich. Tech. B. 80, 33, 1927.  
Borden, Calif. R. f. 1925-26, 64.  
iBrittain, N. S. Dept. Nat. Resource B.  
12, 131-132, 1927.  
iBrooks, et al, Fla. B. 204, 514, 1929.  
Cory, Peninsula Hort. Soc. Tr. 42, 155-  
156, 1929.  
Dean, Kan. Ent. Com. Bien. R. 10, 34,  
1927.  
Dean, Kans. St. Hort. Soc. Bien. R. 39,  
33-34, 1928.  
Essig, Insects of West. No. Amer, 1926,  
27-29.  
Filing, Ohio B. 431, 75, 1929.  
Frost, Penn. St. Hort. Assoc. Proc. 65,  
33-35, 1924.  
Garlick, Dom. Canada Agr. B. 114, 20, '29.  
Garlick, Ont. Ent. Soc. R. 59, 86-93, '29.  
Hartzell, J. Ec. Ent. 19, 781, 1926.  
Hodgkiss, Penn. St. Hort. Soc. Proc. f.  
1926, 21-22, 1926.  
Isely, Ark. Ext. C. 196, June 1925, 2 p.  
Jacobsen, Cal. Dept. Agr. Mo. B. 15,  
130, 1926.  
Jacobsen, Cal. Dept. Agr. Mo. B. 16:  
657, 1927.  
Jardine, Oreg. Bien. Rept. 1924-1926,  
103, 1926.  
Kelsall, Nova Scotia Fr. Grow. Assoc.  
R. 64, 18, 1927.  
Merrill, Cal. R. f. 1925-26, 64-65.  
Merrill, Cal. R. f. 1927-28, 70, 1929.  
Miller, Ohio B. 386, 106-108, 1925.  
Moore, Wis. Hort. 19, 103, 1928.  
iMote, Oreg. C. 65, 17-19, 1926.  
Motherwell, Canad. Min. Agr. R. f.  
1929, 133.  
iNewcomer & Yothers, U. S. D. A.  
Tech. B. 89, 10-11, 1929.  
Peterson, Ont. Ent. Soc. R. 59, 91-92, '29.  
Plakidas, J. Agr. Res. 35, 1062-1068, '27.

- Regan, Wash. St. Hort. Assoc. Proc. 23, 70, 1927.  
 Scholl & Stephens, Texas Dept. Agr. B. 84, 20-21, 1925.  
 iSeverin, So. Dak. Ent. R. 15, 52-57, '24.  
 iSmith, La. Ext. C. 113: 21-24, 1928.  
 Taylor & Philp, Cal. C. 284, 44, 1925.  
 Urbahns, Cal. Agr. B. 14, 173-174, '26.  
 Watson, Fla. R. f. 1928: 46.  
 iWatson, Fla. Dept. Agr. Quar. B. 39: 3, 203, 1929.  
 iWhitcomb & Guba, Mass. B. 246, 280-294, 1928.  
 Whitcomb & Waltham, Mass. B. 247, 318, 1929.  
 Wilson, Tr. Iowa Hort. Soc. 62, 20-21, '27.  
 Woglum, Cal. Fr. Gr. Exch. B. 3, 14-15, '26.  
 Woglum, LaFollette & Landon, Cal. Fr. Grow. Exch. B. 4, 19, 1927.  
 Woglum, LaFollette & Landon, Cal. Fr. Grow. Exch. B. 5, 8, 12, 1928.  
 Woglum, LaFollette & Landon, Cal. Fr. Grow. Exch. B. 6, 6, 9, 17-18, 1929.  
 Yothers, Idaho St. Hort. Assoc. Proc. 24, 111-116, 1924.
- Tetranychus thermophilus**  
 nEwing, Ent. News 37, 142-143, 1926.
- Tetraonyx albipilosa**  
 nVan Dyke, Bklyn. Ent. Soc. B. 24, 127, '29.
- Tetraphleps canadensis**  
 Drake & Harris, Can. Ent. 60, 50, 1928.
- Tetraphleps edacis** 43, novitus 41-42, pingreensis 42, profugus 42-43  
 nDrake & Harris, Proc. Biol. Soc. Wash. 39, 1926.
- Tetrastichus angeloni**  
 nGirault, Ins. Insc. Mens. 14, 128-129, '26.
- Tetrastichus blepyri**  
 Miller, Fla. B. 203, 456, 1929.
- ibSmith & Compere, Cal. Univ. Pub. Ent. 4, 306-308, 1928.  
 ilTimberlake & Clausen, Cal. Univ. Tech. B. Ent. 3; 2, 286-287, 1924.
- Tetrastichus haitiensis**  
 nGahan, Wash. Ent. Soc. Proc. 31, 17-18, '29.
- Tetrastichus incertus**  
 Chamberlin, J. Ec. Ent. 18, 597-602, '25.
- Tetrastichus injuriosus**  
 niCompere, Cal. Univ. Pub. Ent. 4: 1, 11-15, 1926.
- Tetrastichus philodromi**  
 Auten, Ann. Ent. Soc. Amer. 18, 243, '25.
- Tetrastichus punctatifascies**  
 nGirault, Ins. Insc. Mens. 14, 132, '26.
- Tetrastichus sp.**  
 Balduf, Can. Ent. 58, 134-140, 1926.
- Tetrastichus verrucarii**  
 Balduf, Can. Ent. 61, 125-130, 1929.
- niBalduf, Can. Ent. 61; 221-222, 1929.
- Tetriginæ**  
 bOlsen, Pan-Pacific Ent. 5, 181-182, 1929.
- Tetropium alaskanum**  
 nFall, Pan-Pacific Ent. 2, 201-204, 1926.
- Tettigidea prorsa** (Cone-headed grouse locust)  
 Hubbell, Fla. Ent. 9, 43, 1925.
- Tettigoniidae**  
 iHebard, Trans. Amer. Ent. Soc. 53, 79-156, 1927.  
 Pearson, Amer. Nat. 61, 283-285, 1927.  
 Preble, Nature Mag. 6, 305, 1925.
- Tettigonidae—Sonnification**  
 Allard, Science 67, 613-614, 1928.
- Teucholabis bruneri**  
 nAlexander, J. N. Y. Ent. Soc. 34, 227-228, 1926.
- Teucholabis cinereiceps**  
 nAlexander, Ann. Ent. Soc. Amer. 21, 115-116, 1928.
- Teucholabis dampfi**  
 nAlexander, Ann. Ent. Soc. Amer. 20, 308-309, 1927.
- Teucholabis minuta**  
 nAlexander, Ann. Ent. Soc. Amer. 19, 168-169, 1926.
- Teucholabis myersi**  
 nAlexander, J. N. Y. Ent. Soc. 34, 228-229, 1926.
- Teucholabis parishiana**  
 nAlexander, J. N. Y. Ent. Soc. 37, 406, '29.
- Thalassius spenceri**  
 Gudger, Nat. Hist. 25, 273, 1925.
- Thalpius microcephalus**  
 nVan Dyke, Pan-Pacific Ent. 2, 122-123, '26.
- Thamnotettix arundineus**  
 niDeLong, Trans. Amer. Ent. Soc. 52, 91, '26.
- Thamnotettix colonus**  
 Osborn, J. Ec. Ent. 19, 103-104, '26.
- Thamnotettix colonus**  
 Osborn, Ref. Bk. Sugar Indus. of World 4, 48, 1926.  
 Osborn, Porto Rico Dept. Agr. J. 13, 97, '29.

**Thamnotettix cubanus**

nOsborn, Ann. Ent. Soc. Amer. 19, 350, '26.  
Osborn, Porto Rico Dept. Agr. J. 13, 97, '29.

**Thamnotettix lenis**

nVan Duzee, Proc. Cal. Acad. Sci. ser. 4,  
14, 423-424, 1925.

**Thamnotettix nigrifrons**

Osborn, Porto Rico Dept. Agr. J. 13, 98, '29.

**Thamnotettix rubicundula**

Osborn, Porto Rico Dept. Agr. J. 13, 98, '29.

**Thamnotettix smithi (Yellow leafhopper)**

Beckwith, Amer. Cranberry Assoc.  
Proc. 58, 15, 1928.

Beckwith & Hutton, J. N. Y. Ent. Soc.  
37, 426, 1929.

Dobrosky, Amer. Cranberry Assoc.  
Proc. 58, 15, 1928.

**Thamnotettix verutus**

nVan Duzee, Proc. Cal. Acad. Sci. ser. 4,  
14, 424-425, 1925.

**Thanaos clitus**

Basinger, Ent. News 37, 301, 1926.

**Thanaos juvenalis**

Mousley, Can. Ent. 48, 293, 1926.

**Thanaos mercurius, quadratus**

nDyar, Ins. Insc. Mens. 14, 141-142, '26.

**Thanaos tristis**

Bell, Bklyn. Ent. Soc. B. 21, 184, '26.

**Thanasimus nigriventris**

Keen, Cal. Dept. Nat. Resources B. 7,  
74, 1928.

**Thanatus flavidus and Cimex lectularius**

Howard, Ent. News 39, 251, 1928.

bLorando, Sci. Mo. 29, 265-268, 1929.

**Tharsalea arota**

Comstock, So. Cal. Acad. Science B. 27:  
2, 62-66, 1928.

**Thaumaphrastus—n. gen., karanisensis**

niBlaisdell, Proc. Ent. Soc. Wash. 29, 123-  
125, 1927.

**Thaumastaneis montandoni**

iHussey, Bklyn. Ent. Soc. B. 22, 232, '27.

**Thaumatomyrmex cochlearis**

nibCreighton, Psyche 35, 163-168, 1928.

**Thaumetopoea pityocampa**

Dohanian, J. Ec. Ent. 20, 314, 1927.

**Thecabius populi-monilis**

iMaxson & Knowlton, Ann. Ent. Soc.  
Amer. 22, 251, 1929.

**Thecla santans**

nDyar, Ins. Insc. Mens. 14, 140-141, '26.

**Thecodiplosis piniradiatae**

iKeen, Cal. Dept. Nat. Resources B. 7,  
91-92, 1928.

**Thelosia impedita**

nDyar, Proc. Ent. Soc. Wash. 30, 9, '28.

**Thelosia jorgenseni**

nSchaus, Proc. Ent. Soc. Wash. 29, 105-  
106, 1927.

**Thelychaeta caudata** 6, **nitida** 6-7, **pallens**  
5, **villeneuvei** 3-5

nCurran, Amer. Mus. Nov. 246, 1927.

**Themira maculitarsis**

nCurran, Amer. Mus. Nov. 339, 10-11, '29.

**Themira notmani**

nCurran, Amer. Mus. Nov. 275, 2, 1927.

**Theobaldia impatiens**

Freeborn, Cal. Univ. Pub. Ent. B. 3,  
361-362, 1926.

**Theobaldia incidens**

iFreeborn, Cal. Univ. Pub. Ent. B. 3,  
355-359, 1926.

Hermes, J. Ec. Ent. 22, 49, 1929.

**Theobaldia inornata** 359-361, **maccrac-**  
**kenae** 353-354, spp.—**Key** 350-351

Freeborn, Cal. Univ. Tech. B. Ent. 3: '26.

**Theraneis isobel**

nHussey, Bklyn. Ent. Soc. B. 22, 229-230,  
1927.

**Therapon—n. gen.**

nParker, P. U. S. N. M. 75: 5, 12-13, '29.

**Thereva bimaculata, macdunnoughi**

Cole, Can. Ent. 57, 87-88, 1925.

**Therion morio**

Cushman, Proc. Ent. Soc. Wash. 28, 43, '26.

**Thermacarus nevadensis**

nibMarshall, Psyche 35, 92-97, 1928.

**Thermes abicties**

Moore, Proc. Acad. Ent. Soc. 10, 43, '25.

**Thermobia domestica (Fire-brat)\***

iSpencer, B. C. Ent. Soc. Proc. 26, 58-60, '29.

**Thinophilus armiger** 43-44, **canities** 44-45,

**delicatus** 40, **depressus** 39, **insulanus**

49, **latimanus** 37-38, **longiventris** 40-

41, **magnipalpus** 45-46, **mexicanus** 38-

39, **nigripilosus** 44

nVan Duzee, Ann. Ent. Soc. Amer. 19, '26.

**Thinophilus panamensis**

niVan Duzee, P. U. S. N. M. 74: 10, 32-33, '28.

**Thinophilus rufibarbis**

nVan Duzee, Ann. Ent. Soc. Amer. 19,  
48-49, 1926.

- Thinophilus russelli**  
nCurran, Can. Ent. 59, 89, 1927.
- Thinophilus sp.—North America**  
Van Duzee, Ann. Ent. Soc. Amer. 19, 35-49, 1926.
- Thinophilus spinipes** 46-48; **thalassinus** 42-43  
nVan Duzee, Ann. Ent. Soc. Amer. 19, '26.
- Thiodia albertana**  
niMcDunnough, Can. Ent. 57, 12, 1925.
- Thiodia altana**  
nMcDunnough, Can. Ent. 59, 272-273, '27.
- Thiodia camdenana**  
nMcDunnough, Can. Ent. 57, 17, 1925.
- Thiodia castrensis**  
nMcDunnough, Can. Ent. 61, 271, 1929.
- Thiodia complicana** 16, **convergana** 15  
niMcDunnough, Can. Ent. 57, 1925.
- Thiodia formosana**  
niHeinrich, P. U. S. N. M. 74; 8, 1, 1929.
- Thiodia indeterminana**  
niMcDunnough, Can. Ent. 57, 13, 1925.
- Thiodia latens**  
niHeinrich, P. U. S. N. M. 74; 8, 2, 1929.
- Thiodia modernana**  
niMcDunnough, Can. Ent. 57, 13, 1925.
- Thiodia pastigiata**  
niHeinrich, P. U. S. N. M. 74; 8, 3-4, '29.
- Thiodia rupestrana**  
niMcDunnough, Can. Ent. 57, 17, 1925.
- Thiodia setonana**  
nMcDunnough, Can. Ent. 59, 273, '27.
- Thiodia youngi**  
niMcDunnough, Can. Ent. 57, 16, 1925.
- \***Thistle aphid**, *see* **Anuraphis cardui**
- Thlecteria ysticalis**  
nDyar, Ins. Insc. Mens. 13, 8, 1925.
- Tholeria pyraustalis**  
nDyar, Ins. Insc. Mens. 13, 8, 1925.
- Thorn leaf aphid**, *see* **Anuraphis crataegi-foliae**
- Thorybes diversus**  
nBell, Bklyn. Ent. Soc. B. 22, 217-218, '27.
- Thorybothrips yuccae**  
nMoulton, Bklyn. Ent. Soc. B. 24: 237-238, 1929.
- Thrasymedes nigricosta**  
nGoding, Trans. Amer. Ent. Soc. 52, 109-110, 1926.
- Thraulodes plicatus** 42-43, **telegraphicus** 41-42, **bradleyi** 45, **maculatus** 45-46, **spp.—Key** 44-45  
Needham&Murphy, Lloyd Lib. B. 24, '24.
- \***Three-banded leafhopper**, *see* **Erythro-neura tricornata**
- Three-cornered alfalfa hopper**, *see* **Sticto-cephala festina**
- Three lined fig borer**, *see* **Ptychodes vittatus**
- \***Three-lined potato beetle**, *see* **Lema triline-ata**
- Thrips**  
iBarre, S. C. Rept. 41, 48-49, 1928.  
Britton & Anderson, Conn. Tobacco Expt. Sta. B. 6, 85 T-86 T.  
Carter, Can. Hort. 52, 25, 1929.  
Dean, Kan. Ent. Com. Bien. R. 10, 30-31, 1927.  
Hansen, Science 69: 1787, 356, 1929.  
Hockett, N. Y. Geneva C. 80, 7-9, 1925.  
Jardine, Oreg. Bien. R. f. 1926-28, 119, 1928.  
Urbahn, Calif. Grape Grow. 7; 5, 11, '26.  
Venables, Proc. Ent. Soc. B. C. 22, 9-12, '25.  
Watson, Citrus Industry 4; 4, 34, 1923.  
Woglum, Calif. Citrog. 11, 71, 1925.
- Thrips brevipilosa**  
nMoulton, Brooklyn Ent. Soc. B. 22, 194-195, 1927.
- Thrips flavicauda**  
nWatson, Fla. Ent. 11, 43-44, 1927.
- Thrips gilletti**  
niMoulton, Trans. Amer. Ent. Soc. 52, 126-127, 1926.
- Thrips gilmorei**  
nMoulton, Bklyn. Ent. Soc. B. 24: 234-236, 1929.
- Thrips heraclei**  
nMoulton, Pan-Pacific Ent. 3: 1, 25-28, '26.
- Thrips lacteicarpus**, **mediolineus**  
nGirault, Ins. Insc. Mens. 14, 17-18, '26.
- Thrips monotropae**  
niHood, Ent. Americana 7, 217-218, '27.
- Thrips nigropilosus**  
Gentner, J. Ec. Ent. 22, 598-599, '29.
- Thrips shakespeariei**  
nGirault, Ins. Insc. Mens. 14, 190, '27.
- Thrips sp.**  
Balch, Amer. Florist 68: 2016, 3, '27.  
Bonnet, Calif. Grape Grow. 9; 3, 7, '28.  
iSeverin, So. Dak. Ent. R. 15, 39-44, '24.

**Thrips tabaci (Onion thrips)\***

- Barre, S. C. R. 42; 59-60, 1929.  
 Bourne, Mass. B. 227, 48-51, 1926.  
 iBourne, J. Ec. Ent. 22, 679-682, 1929.  
 Bourne, Mass. B. 247, 317, 1929.  
 Britton, Conn. B. 305, 764, 1929.  
 iCaesar, Ont. Dept. Agr. B. 325, 48-51, '27.  
 Caesar, Ont. Veg. Grow. Assoc. R. 22, 15-16, 1927.  
 Compton, Ill. C. 297, 39-40, 1925.  
 Compton, Ill. Hort. Soc. Trans. 59, 313-314, 1926.  
 Fernald, J. Ec. Ent. 18, 638, 1925.  
 Friend & Walden, Conn. B. 265, 319, '25.  
 Garcia, New Mex. R. 36, 19, 1925.  
 Guyton & McCubbin, Pa. Agr. B. 10: 5, 7-8, 1927.  
 Headlee, N. J. Hort. Soc. Proc. 1926, 32, '26.  
 Hoerner, S. Dak. St. Hort. Soc. R. 22, 261, 1925.  
 iMacLeod, Penn. St. Coll. C. 122, 29, '29.  
 Merrill, Cal. R. f. 1927-28, 70, 1929.  
 Morrill, J. Ec. Ent. 18, 714, 1925.  
 Mote, Oreg. C. 65, 31-32, 1926.  
 Perkins, Rural N. Y. 85, 319, 1926.  
 Pettit, Mich. Spec. B. 168, 14-15, '27.  
 iPettit, Mich. Sp. B. 183, 12-13, 1929.  
 Scholl & Stephens, Texas Dept. Agr. B. 84, 21-22, 1925.  
 Shepard, J. Ec. Ent. 18, 549-550, '25.  
 Thatcher, N. Y. Gen. R. 43, 44, 1924.  
 iWatson, Fla. Dept. Agr. Quar. B. 39: 3; 112-113, 1929.  
 Williams, Ohio B. 417, 50, 1928.  
 Wilson, Utah C. 64, 31, 1927.  
 Idaho B. 149, 29, 1927.  
 Idaho B. 164, 29, 1929.  
 Ill. Hort. Soc. Tr. 59, 313-314, 1925.

**Thrips tritici (Strawberry thrips) see Frankliniella tritici****Thrips veratri**

- niHerrick, Ent. News 38, 276-278, 1927.  
 niHood, Ent. Americana 7, 218-219, 1927.  
**Thrycolyga abdominalis**  
 nCurran, Amer. Mus. Nov. 246, 8-9, '27.  
**Thrycolyga creole** 1-2, neta 2-3, sessitans 2  
 nCurran, Amer. Mus. Nov. 258, 1927.

**Thrypticus acuticauda**

- niVan Duzee, Proc. U. S. Nat. Mus. 74: 10, 37-38, 1928.

**\*Thurberia weevil, see Anthonomus grandis thurberiae****Thurberiphaga catalina—Quarantine**

- Marlatt, USDA FHB R. f. 1925, 7.  
**Thurberiphaga diffusa (Thurberia boll worm)**

- ibVorhies, Ariz. Tech. B. 7, 141-153, '26.

**Thyanta perditor**

- Stoner, Univ. Iowa Stud. Nat. Hist. 10: 1, 12, 1922.

**Thylochromus nitidulus**

- nBarber, Brklyn. Ent. Soc. B. 23, 264, '28.

**Thylodras contractus**

- ibMutchler & Weiss, N. J. Dept. Agr. C. 108, 6-7, 18-19, 1927.

**Thylochromus sp.**

- nBarber, Brklyn. Ent. Soc. B. 23: 264-265, 1928.

**Thymalus marginicollis**

- Mutchler & Weiss, N. J. Dept. Agr. C. 154, 8, 1929.

**Thyridopteryx ephemeriformis (Bagworm)\***

- iAaron, Sci. Amer. 133, 184-185, 1925.  
 iblBaerg, Ark. B. 224, 1-9, 1928.  
 Carpenter, Flower Grow. 12, 77, 1925.  
 Dean, Kan. Ent. Com. Bien. R. 10, 32-33, 1927.  
 Gates, Kan. Ent. Com. Bien. R. 10, 18, '27.  
 iGladney, Miss. St. Pl. Bd. 4; 4, 11, '25.  
 Jones & Parks, Tex. B. 382, 1928, 36 p.  
 Lieber, Ind. Dept. Conserv. R. 6, 37, '25.  
 Peirson, Me. For. Serv. B. 5, 26, 1927.  
 Reppert, Farm & Ranch 44; 20, 30, '25.  
 iWalker, Flower Grow. 15, 427, 1928.  
 iWatson, Fla. B. 183, 396-397, 1926.  
 Conn. B. 265, 338, 1925.  
 Iowa Agriculturist 24, 218, 1924.  
 Mo. Bot. Garden B. 18; 2, 36-40, 1930.

**Thyrinteina schadeana**

- nSchaus, Proc. Ent. Soc. Wash. 29, 80, '27.

**Thysania zenobia**

- Clark, Sc. Mo. 23, 396, 1926.

**Thysanoes xylophagus**

- nBlackman, N. Y. State Coll. For. B. 1:3-b, 198-199, 1928.

**Thysanoptera**

- Annand, Amer. Nat. 50, 177-182, 1926.  
 Ball, Fla. Ent. 10, 21-24, 27, 1926.  
 Dozier, Porto Rico Dept. Agr. J. 10: 3 & 4; 279-281, 1926.

- iHerrick, Ent. News 36, 180-183, 1925.

- iHood, Brklyn Ent. Soc. B. 20, 124-130, '25.

- nHood, Ent. News 36, 101-105, 1925.  
 nHood, Ent. News 36, 134-138, 1925.  
 iHood, Ent. Americana 7, 209-244, 1927.  
 Hood, Ent. News 38, 112-113, 1927.  
 nMorgan, Fla. Ent. 9: 1, 1-7, 1925.  
 iMoulton, Brooklyn Ent. Soc. B. 22, 181-202, 1927.  
 Moulton, Brooklyn Ent. Soc. B. 24, 224, 1929.  
 Moulton, Pan-Pacific Ent. 6: 11-20, '29.  
 Watson, Fla. Ent. 9, 58-59, 1926.  
 nWatson, Fla. Ent. 10; 1, 9-12, 1926.  
 Watson, Fla. Ent. 11, 27-30, 1927.
- Thysanus elongatus**  
 iTimberlake & Clausen, Calif. Univ. Tech. B. Ent. 3; 2, 281-284, 1924.
- Thysanus niger**  
 iSmith & Compere, Calif. Univ. Pub. Ent. 4, 332-334, 1928.
- Thysiotorus conjunctus** 78, *seamansi* 77, *regularis* 78  
 nViereck, Can. Ent. 57, 1925.
- Thysiotorus triangularis**  
 iBMuesebeck & Dohanian, U.S.D.A.B. 1487, 17, 1927.
- Tia, n. gen.**  
 iHeinrich, U. S. Nat. Mus. B. 132, 108, 1926.
- Tibicen auletes**  
 bBeamer, Kans. Univ. Sci. B. 18, 223-224, 1928.  
 iDavis, N. J. Dept. Agr. Bur. Stat. C. 97, 12-13, 1926.
- Tibicen aurifera**  
 bBeamer, Kans. Univ. Sci. B. 18, 207-211, 1928.
- Tibicen (Diceroprocta) biconica**  
 Myers, Psyche 35, 119, 1928.
- Tibicen bifida**  
 bBeamer, Kans. Univ. Sci. B. 18, 212-215, 1928.
- Tibicen canicularis**  
 iDavis, N. J. Dept. Agr. Bur. Stat. C. 97, 8, 1926.
- Tibicen chloromera**  
 bBeamer, Kans. Univ. Sci. B. 18, 224-225, 1928.  
 iDavis, N. J. Dept. Agr. Bur. Stat. C. 97, 11-12, 1926.
- Tibicen davisii**  
 iDavis, N. J. Dept. Agr. Bur. Stat. C. 97, 8, 1926.
- Tibicen dealbata, dorsara**  
 bBeamer, Kans. Univ. Sci. B. 18, 217-218-221, 1928.
- Tibicen latifasciata**  
 iDavis, N. J. Dept. Agr. Bur. Stat. C. 97, 7, 1926.
- Tibicen linnei**  
 bBeamer, Kans. Univ. Sci. B. 18, 226, '28.  
 iDavis, N. J. Dept. Agr. Bur. Stat. C. 97, 1926, 27 p.  
 iPeirson, Me. For. Serv. B. 5, 84-85, '27.
- Tibicen longiopercula**  
 niDavis, J.N.Y. Ent. Soc. 34, 179-181, '26.
- Tibicen lyricen**  
 bBeamer, Kans. Univ. Sci. B. 18, 225-226, 1928.  
 iDavis, N. J. Dept. Agr. Bur. Stat. C. 97, 10, 1926.
- Tibicen marginalis, pruinosa**  
 bBeamer, Kans. Univ. Sci. B. 18, 215-216, 221-223, 1928.
- Tibicen semicincta**  
 niDavis, J.N.Y. Ent. Soc. 33, 41, 1925.
- Tibicen spp. Kansas—Oviposition**  
 Beamer, Ann. Ent. Soc. Amer. 18, 479-482, 1925.
- Tibicen tigrina**  
 niDavis, J. N. Y. Ent. Soc. 35, 374-376, 1927.
- Tibicen vitripennis**  
 bBeamer, Kans. Univ. Sci. B. 18, 211, 212, 1928.  
 —Miss. St. Pl. Bd. Quar. B. 6; 2, 15, 1926.
- Tibicina septendecim (Periodical cicada)\***  
 Britton, Conn. B. 294, 297, 1928.  
 iBritton, Conn. 305, 744-751, 1929.  
 Burdette, N.J.R. 50, 181-182, 1929.  
 iChamplain & Kirk, Nat. Mag. 9, 288-290, 1927.  
 Davis, N. J. Dept. Agr. Bur. Stat. C. 97, 17, 1926.  
 Davis, Bklyn. Ent. Soc. B. 23, 64-66, '28.  
 iSnodgrass, Proc. Ent. Soc. Wash. 29, 1-16, 1927.

**Tick Bites**

Chandler, *Animal Parasites*, ed. 3, 357-358, 1925.

**Tick Eradication**

Allen, *Vet. Med.* 22; 8, 333, 1927.

Bass, *Farm & Ranch*, 44; 20, 5, 1925.

Bux, *Amer. Vet. Med. Assoc. J.* 76; 3, 467-476, 1930.

Horne, *Amer. Vet. Med. Assoc. J.* 74, 596-598, 1929.

Knapp, U. S. Live Stock Sanit. Assoc. Proc. 31, 932-938, 1927.

iLeach, *Fla. Grow.* 35; 10, 12, 1927.

Lockett, *Jamaica, Sci. & Agr. Dept. Ann. R. f.* 1926, 13, 1927.

Lockett, *J. Jam. Agr. Soc.* 31, 293-295, 1927.

iRamsay, U.S.D.A. YB 1927, 613-615, '28.

Robbins, *J. Amer. Vet. Med. Assoc.* 70, 751-754, 1927.

Stone, *Ill. Bur. Farm.* 5; 1, 10, 1929.

**Tick eradication—Ark.**

McDonald, *J. Amer. Vet. Med. Assoc.* 72, 940-943, 1928.

McDonald, *Live Stock Sanit. Assoc. Proc.* 31, 940-943, 1928.

**Tick eradication—Cattlemen's viewpoint**

Spiller, *J. Amer. Vet. Med. Assoc.* 70 (n.s. 23) 754-760, 1927.

**Tick eradication committee report**

Bahnsen, *Am. Vet. Med. Assoc. J.* 70, 760, 763, 1927.

Lewis, *Live Stock Sanit. Assoc. Proc.* 31, 943-946, 1928.

Lewis, *J. Am. Vet. Med. Assoc.* 72, 943-946, 1928.

**Tick eradication conference**

—*Amer. Vet. Med. Assoc. J.* 71, 258-260, 1927.

**Tick eradication films**

Lindstrom, *USDA YB* 1927, 468-469, '28.

**Tick eradication—Florida**

Knapp, *Fla. Gr.* 36; 12, 34-35, 1928.

Knapp, *J. Amer. Vet. Med. Assoc.* 72, 932-938, 1928,

Stone, *Bur. Farm* 5; 1, 10, 1929.

**Tick eradication—La.**

Davis, *La. Dairym.* 2; 7, 13-21, 1929.

**Tick eradication—Miss.**

Drew, *Valley Farmer* 3; 3, 8, 1929.

Wilson, *La. Dairym.* 2; 8, 17, 19, 1929.

**Tick eradication—Organization**

Jackson, *Amer. Vet. Med. Assoc. J.* 74, 598-604, 1929.

**Tick eradication—State cooperation**

Robbins, *J. Amer. Vet. Med. Assoc.* 70 (n.s. 23) 751-754, 1927.

**Tick eradication—Tex.**

Kleberg, *Amer. Vet. Med. Assoc. J.* 74, (n.s. 27) 587-596, 1929.

Spiller, *J. Amer. Vet. Med. Assoc.* 70, 754-760, 1927.

**Tick eradication—Va.**

Still, *J. Amer. Vet. Med. Assoc.* 72, 938-940, 1928.

Still, *U.S. Live Stock Sanitary Bd. Proc.* 31, 938-940, 1927.

**Tick paralysis**

Baldwin, *Vet. Med.* 20, 507-508, 1925.

biBruce, *J. Am. Vet. Med. Assoc.* 68, 147-161, 1925.

Chandler, *Animal Parasites*, ed. 3, 358-359, 1925.

—*Mont. St. Bd. Ent. Bien. R.* 7, 76, 1927-28.

**Tick parasites**

Cooley, *Mont. St. Bd. Ent. Bien. R.* 7, 7-16, 1928.

Parker & Butler, *Mont. St. Bd. Ent. Bien. R.* 7, 35-38, 1928.

**Tick rearing—Technique**

Morton, *Mont. St. Bd. Ent. Bien. R.* 7, 32-35, 1927-28.

**Ticks**

Boggs, *So. Planter* 90; 14, 19, 1929.

iChandler, *Animal Parasites*, ed. 3, 352-369, 1925.

iCowdry, *J. Exp. Med.* 41, 817-830, '25.

Cradwick, *J. Jam. Agr. Soc.* 29, 72-73, 1925.

Gibson & Twinn, *Can. Dept. Agr. B.* 112, 71, 1929.

Imes, *U.S.F.B.* 1493, 12, 1926.

bPearse, *Elisha Mitchell Sci. Soc. J.* 43, 171-175, 1928.

iRiley, *Nation's Health* 8, 176-177, '26.

**Ticks—British Columbia**

Bruce, *Ent. Soc. B.C. Proc.* 24, 27-30, '27.

- Ticks and Anaplasmosis in cattle**  
 bStiles, Amer. Vet. Med. Assoc. J. 74, 704-723, 1929.
- Ticks and equine piroplasmosis**  
 bClark & Zetek, Am. J. Trop. Med. 5, 17-26, 1925.
- Ticks and Watermelons**  
 Walker, Fla. Grow. 33; 25, 8, 1926.
- Ticks as disease carriers**  
 Chandler, Animal parasites ed. 3, 359-363, 1925.
- Tiger swallowtail, see Papilio glaucus**
- Tijuca, n. gen.**  
 Holt, Ent. News 37, 85, 1926.
- Tile-horned prionus, see Prionus imbricornis**
- Tillinae—Notes on North American**  
 Chapin, Proc. Biol. Soc. Wash. 40, 143-145, 1927.
- Timber insects—Defects caused**  
 biSnyder, U.S.D.A.B. 1490, 1927, 46p.
- Timema californica**  
 ibEssig, Insects of Western No. Amer. 1926, 108-109.
- Tinagma leucaspis**  
 nBraun, Can. Ent. 58, 48, 1926.
- Tinea granella (European grain moth)**  
 Back & Cotton, U. S. F. B. 260; rev. Dec. 1925, 15-16.  
 Gibson & Twinn, Can. Dept. Agr. B. 112, 33, 1929.
- Tinea irrepta**  
 Braun, Can. Ent. 58, 49-50, 1926.
- Tinea pellionella (Case-bearing clothes moth)**  
 Back & Cotton, Refrigerating Engineering 13, 266-366, 1927.  
 iBack & Cotton, Furniture Manufacturer, 95; 1, 35-39, 1928.  
 Back & Cotton, Nat. Retail Dry Goods Assoc. B. 10; 2, 52-53, 1928.  
 iBrittain, N. S. Dept. Nat. Resource B. 12, 125-127, 1927.  
 Clark, Soc. Dyers & Colorists J. 42, 16-17, Ja. 1926.  
 ibClark, Textile Inst. J. 19, 295-320, '28.  
 Clark & Craft, Soc. Dyers & Colorists J. 41, 155-159, May 1925.  
 Colton, R. of Reviews 75, 212, F. 1927.
- Colton, Sci. Mo. 24, 47-57, Jan. 1927.  
 Cotton, R. of R's. 75, 212, Feb. 1927.  
 Darrow, Colliers 83, 57, 1929.  
 iDavis, Ind. C. 150, 3-5, 1928.  
 iGibson & Twinn, Can. Dept. Agr. B. 112, 36-40, 1929.  
 Guyton, Pa. Dept. Agr. Gen. B. 432, 11, 1927.  
 iHungerford, Kans. St. Bd. Agr. Bien. R. 24, 101-102, 1924.  
 Johnson, Amer. Dyestuff, R. 14, 11-13, Jan. 12, 1925.  
 Lieber, Ind. Dept. Conserv. R. 7, 43-44, 1925.  
 Lieber, Ind. Dept. Conserv. R. 9, 45, '27.  
 iMayer, Good H. 80, 86, May, 1925.  
 iMcDaniel, Mich. C. B. 104, 1927, 20 p.  
 Petch & Armstrong, Quebec Soc. Protec. Plants R. 17, 77, 1925.  
 Reppert, Tex. Ext. Ser. Farm News 11; 10, 1926.  
 Roark, Soap 2; 12, 95-101, 1928.  
 Sachs, Amer. Dyestuff R. 14, 155-158, Mar. 9, 1925.  
 iSachs, Textile Colorist 48, 452-456, 526-530, Jl.-Aug. 1926.  
 iSmith, Pictorial R. 30, 56, My. 1929.  
 Strand, Bur. Farm. 3; 12, Minn. Farm. Bur. Sec. Aug. 1928, 17 p.  
 W.E.W., J. Agr. & Hort. 31, 168, 1928.  
 Whitson, Good H. 86, 91, Mar. 1928.  
 Williams, Farm & Breed. 52; 15, 12, '29.  
 Zur Linden, Hosp. Corps. Quart. 11, 44-45, 1928.
- Tinea olealla (Olive caterpillar)**  
 Hughes, Cal. Cult. 65, 319, 1925.
- Tinea spp.**  
 Maheux, Quebec Soc. Protec. Plt. R. 18, 108, 1926.
- Tineola biselliella (Webbing clothes moth)\***  
 iBack & Cotton, Furniture Manfg. 95; 1, 35-39, 1928.  
 iBrittain, N. S. Dept. Nat. Resource B. 12, 125-127, 1927.  
 iColton, Sci. Mo. 24, 47-57, 1927.  
 iGibson & Twinn, Can. Dept. Agr. B. 112, 36-40, 1929.  
 Guyton, Pa. Dept. Agr. Gen. B. 432, 11, 1927.



**Tineola biselliella** *Cont'd*

Lieber, Ind. Dept. Conserv. R. 9, 45, '27.

McDaniel, Mich. C.B. 104, 5-6, 1927.

Mullin, Textile Colorist 47, 161, 1925.

Pett &amp; Grady, Soap, 4; 99, 1928.

White et al, Ent. News, 40, 117-121, '29.

bWhite et al, Ent. News, 40, 137-141, '29.

**Tineola pellionella**

Mullin, Textile Colorist 47, 160, 1926.

**Tineola uterella**

Watson, Cit. Ind. 9, 12, 26, 1928.

**Tingis colombiana**

nDrake, Brklyn. Ent. Soc. B. 24, 35, '29.

**Tingis corumbiana, silvacata**

nDrake, Ann. Carnegie Mus. 17; 1, 83-84, 1926.

**Tingitidae**

Drake, Psyche 33, 86-88, 1926.

iDrake, Ann. Carnegie Mus. 16, 375-380, 1926.

Drake, Mich. Univ. Mus. Zool. Occ. Papers, 190, 1928, 5 p.

Drake, Iowa St. Col. J. Sci. 3, 41-56, '28.

**Tinia—N. Orleans**

Castellani—N. Orleans Med. &amp; Surgical J. 79; 12, 896-900, 1927.

**Tip moth, see** *Peronea variana***Tip-tail mayfly, see** *Ephemerella inermis***Tiphia inornata**

Petch &amp; Hammond, Ont. Ent. Soc. R. 55, 24-25, 1925.

Petch &amp; Hammond, Ont. Ent. Soc. R. 56, 87, 1926.

**Tiphia koreana**

iClausen et al, U.S.D.A.B. 1429, 42-43, 1927.

nRohwer, Proc. Ent. Soc. Wash. 29, 19, 1927.

**Tiphia parallela**

Box, P. R. Dept. Agr. J. 9, 313, 1925.

**Tiphia popilliavora**

iClausen et al, U.S.D.A.B. 1429, 33-39, 1927.

iKing, U.S.D.A. YB 1927, 406-407, '28.

King, Allen &amp; Hallock, J. Ec. Ent. 20, 368-369, 1927.

Smith, N. J. Dept. Agr. Ann. R. 12, 96, 1927.

**Tiphia spp.**

King, Allen &amp; Hallock, J. Ec. Ent. 20, 371, 1927.

King, U. S. Golf Assoc. Green Sec. B. 7, 109, 1927.

iMcColloch, et al, Ecology, 9, 41-42, '28.

**Tiphia vernalis**

iClausen et al, U.S.D.A.B. 1429, 40-41, 1927.

iKing, U.S.D.A. YB 1927, 407, 1928.

King, Allen &amp; Hallock, J. Ec. Ent. 20, 369, 1927.

———J. Ec. Ent. 20, 761, 1927.

**Tiphodytes gerriphagus**

bliMartin, Ent. Amer. 8, 131-149, 1927.

**Tipula accurata, albertensis**

nAlexander, Can. Ent. 59, 184-185, 217, 1927.

**Tipula aldrichiana**

nKnowlton, Can. Ent. 61, 16, 1929.

**Tipula amurensis**

niAlexander, P.U.S.N.M. 68, Art. 4, 16-17, 1925.

**Tipula anthonympha**

nAlexander, Ann. Ent. Soc. Amer. 21, 629-630, 1928.

**Tipula athabasca**

nAlexander, Can. Ent. 59, 217-218, '27.

**Tipula azteca**

niAlexander, Ann. Ent. Soc. Amer. 18, 357-358, 1925.

**Tipula bellardiana**

nAlexander, Ann. Ent. Soc. Amer. 19, 173-175, 1926.

**Tipula brevifurcata**

nAlexander, Ent. News, 37, 291-292, '26.

**Tipula bucera**

nAlexander, Can. Ent. 59, 187-188, 1927.

**Tipula cockerelliana**

nAlexander, P.U.S.N.M. 68, Art. 4, 14-15, 1925.

**Tipula colombicola**

nAlexander, Ann. Ent. Soc. Amer. 22, 768-769, 1929.

**Tipula concava**

nAlexander, Ent. News 37, 294-295, '26.

**Tipula crawfordi**

inCurran &amp; Alexander, Can. Ent. 58, 291-293, 1926.

- Tipula detecta*  
nAlexander, Ins. Insc. Mens. 14, 165-166, 1927.
- Tipula effera*  
nAlexander, J.N.Y. Ent.Soc.37,89-96,'29.
- Tipula fazi*  
nAlexander, Ann. Ent. Soc. Amer. 21, 630-632, 1928.
- Tipula floridensis*  
nAlexander, Ent. News 37, 292-294, '26.
- Tipula fraudulenta*  
nAlexander, Ann. Ent. Soc. Amer. 21, 626-627, 1928.
- Tipula gaspensis*  
nBrown, Can. Ent. 61, 233-234, 1929.
- Tipula grenfelli*  
nAlexander, Can. Ent. 60, 96-97, 1928.
- Tipula ideii*  
nAlexander, Can. Ent. 60, 55, 1928.
- Tipula imbellis*  
nAlexander, Can. Ent. 59, 186-187, 1927.
- Tipula inarmata*  
nAlexander, Ann. Ent. Soc. Amer. 21, 627-628, 1928.
- Tipula lanigera*  
nAlexander, Ann. Ent. Soc. Amer. 21, 628-629, 1928.
- Tipula latemarginata*  
Alexander, P.U.S.N.M. 68, Art. 4, 17,'25.
- Tipula lugulifera*  
niAlexander, P.U.S.N.M. 68, Art. 4, 15-16, 1925.
- Tipula mckeani*  
nCockerell, Psyche 36, 147-148, 1929.
- Tipula maculipleura*  
nAlexander, Ent. News 38, 182-183, '27.
- Tipula microspilota*  
nAlexander, Ann. Ent. Soc. Amer. 21, 634-635, 1928.
- Tipula nigrovariegata*  
nAlexander, Ann. Ent. Soc. Amer. 21, 627, 1928.
- Tipula noctezumae*  
niAlexander, Ann. Ent. Soc. Amer. 18, 356-357, 1925.
- Tipula oreomyzoides*  
nAlexander, Ann. Ent. Soc. Amer. 19, 175-176, 1926.
- Tipula osceola, ozytona*  
nAlexander, Ent. News 38, 181-184, 1927.
- Tipula packardii*  
nAlexander, Can. Ent. 60, 99-100, 1928.
- Tipula parvemarginata*  
nAlexander, Ent. News 37, 295-297, 1926.
- Tipula perparvula*  
nAlexander, Ins. Insc. Mens. 14, 120-122, 1926.
- Tipula perretti*  
nAlexander, Can. Ent. 60, 98-99, 1928.
- Tipula sibiriciensis*  
niAlexander, P.U.S.N.M. 68, Art. 4, 19-20, 1925.
- Tipula spatulifera*  
nAlexander, Ann. Ent. Soc. Amer. 21, 632-633, 1928.
- Tipula subbarbata*  
nAlexander, Can. Ent. 59, 185-186, '27.  
nAlexander, Can. Ent. 60, 97, 1928.
- Tipula synchroa*  
nAlexander, Ent. News 38, 183, 1927.
- Tipula tecta*  
nAlexander, Ins. Insc. Mens. 14, 166-167, 1927.
- Tipula tersa*  
nAlexander, Ent. Soc. Amer. 21, 633-634, 1928.
- Tipula usuriensis*  
niAlexander, P.U.S.N.M. 68, Art. 4, 18-19, 1925.
- Tipula variata*  
nAlexander, Can. Ent. 59, 216-217, '27.
- Tipula youngi*  
nAlexander, Can. Ent. 59, 218-219, 1927.
- Tipula zeltale*  
Alexander, Ann. Ent. Soc. Amer. 21, 102-103, 1928.
- Tipula zonalis*  
nAlexander, Ins. Insc. Mens. 14, 164-165, 1927.
- Tipula zotzil*  
nAlexander, Ann. Ent. Soc. Amer. 21, 103-104, 1928.
- Tipulidae**  
Alexander, Ent. News 37, 44-51, 1926.  
Alexander, J.N.Y. Ent. Soc. 34, 223-230, 1926.

**Tipulidae Cont'd**

- Alexander, J.N.Y. Ent. Soc. 37, 89-99, 395-407, 1929.  
 Alexander, Can. Ent. 59, 214-225, 1927.  
 Fernald, Applied Ent. ed. 2, 307, 1926.  
 iPackard & Thompson, USDA Dept. C. 172 rev. Oct. 1929, 8 p.  
 Rogers, Fla. Ent. 10; 1, 5-7, 1926.

**Tipulidae larvae**

- Muttikowski, N. Y. St. Col. Forestry, B. 2, 176-179, 1929.  
 Alexander, N. Y. Ent. Soc. J. 36, 47-59, 355-367, 1928.  
 Alexander, Boston Soc. Nat. Hist. Occas. Papers 5; 223-231, 1927.  
 Alexander, Bklyn. Ent. Soc. B. 24, 22-24, 1929.  
 Alexander, Bklyn. Ent. Soc. B. 24, 295-302, 1929.  
 Alexander, Ent. News 37, 291-297, '26.  
 Alexander, P.U.S.N.M. 64, Art. 10, 1925, 16 p.  
 Alexander, Can. Ent. 58, 236-240, 1926.  
 Alexander, Can. Ent. 60, 54-60, 1928.  
 Alexander, Can. Ent. 61, 231-236, 247-251, 1929.

**Tipulidae—Poisoned bait**

- Watson, Fla. Dept. Agr. Quar. B. 39; 3, 219, 1929.

**Tischeria admirabilis**

- nBraun, Trans. Amer. Ent. Soc. 51, 16-17, 1925.

**Tischeria cinereotunicella**

- nBraun, Trans. Amer. Ent. Soc. 53, 195-196, 1927.

**Tischeria eikbladhella**

- Needham, Frost & Tothill, Leaf-mining insects, 1928, 56-58.

**Tischeria malifoliella (Apple leaf trumpet miner)\***

- iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 92-96.

**Tischeria mediotriata**

- nBraun, Trans. Amer. Ent. Soc. 53, 197, 1927.

**Tischeria omissa**

- nBraun, Trans. Amer. Ent. Soc. 53, 197-198, 1927.

**Tmetocera ocellana (Eye spotted bud-moth)\***

- Brittain, Ont. Ent. Soc. R. 59, 9, 1929.  
 Brittain, Fruit Gr. Assoc. Nov. Scotia R. 61, 72-74, 1925.  
 iBrittain, N. S. Dept. Nat. Resource B. 12, 28-29, 1927.  
 Crosby, et al, N.Y.C.B. 498, 19-20, 1929.  
 iFrost, J. Agr. Res. 35, 347-359, 1927.  
 Gilliatt, Ont. Ent. Soc. R. 58, 27-39, '28.  
 Harman, J. Ec. Ent. 22, 660-662, 1929.  
 iHarman, N. Y. (Geneva) C. 109, 1-10, 1929.  
 iHerrick, R.N.Y. 88; 5045, 326, 1929.  
 Kelsall, Fruit Gr. Assoc. Nova Scotia R. 61, 88-96, 1925.  
 Kelsall, Nova Scotia Frt. Grow. Assoc. R. 63, 26-28, 1926; R. 63, 46-52, 1926; R. 64, 24, 1927; R. 65, 76, 1929.  
 Merrill, Cal. R. f. 1927-28, 69, 1929.  
 Parrott, Amer. Frt. Grow. Mag. 49; 3, 11, 1929.  
 Parrott, N. Y. St. Hort. Soc. Proc. 74, 27-39, 1929.  
 Parrott & Harman, N. Y. Gen. C. 109, 1929, 10 p.  
 Petch & Armstrong, Quebec Soc. Protec. Plts. R. 17, 74, 1925.  
 Phipps, Me. Ext. C. 100, 4, 1929.  
 Spittall, Proc. Acadian Ent. Soc. 10, 17-20, 62, 1925.  
 Spittall, Ont. Ent. Soc. R. 58, 10-11, '28.  
**Toad—Insect food**  
 iJohnson, U.S.D.A. YB 1927, 620-625, '28.  
 Rosenfeld, Sugar B. 6; 11, 3-6, 1928.  
 \*Toadbug, see *Gelastocoris oculatus*  
**Tobacco beetle, (Cigarette beetle)\*, see**  
*Lasioderma serricornes*  
**Tobacco blotch leaf miner, see** *Psara periusalis*  
**Tobacco budworm, see** *Heliothis virescens*  
**Tobacco cutworms**  
 Chamberlin, Fla. Grow. 33; 15, 19, '26.  
 iClark, Wis. B. 396, 101-103, 1927.  
 iCrumb, U.S.F.B. 1494, 1926, 12 p.  
 \*Tobacco flea beetle, see *Epitrix parvula*

- Tobacco hornworm, (Tomato worm)\*,**  
*see Phlegethontia sexta*
- Tobacco insects**  
 Brannon, N. C. Ext. C. 174, 1929, 11 p.  
 Brannon, S. Cult. 87; 14, 10, 1929.  
 Brannon, West. Tobacco J. 56; 45, 29,  
 30, 32, 34, 1929.  
 iBritton & Anderson, Conn. Tobacco  
 Expt. Sta. B. 6, 74T-93T, 1926.  
 Brunson, S. C. Wkly. News Notes, 18;  
 10, 1929, 1 p.  
 Crumb, U.S.D.A. Tech. B. 88, 1929, 52 p.  
 Howard, U.S.D.A. Ent. R. f. 1925, 26.  
 Hunter, Can. Exp. Sta. Summerland,  
 B.C.R. f. 1927, 55-57, 1928.  
 iMason, Spraying, 494-497, 1928.  
 iMetcalf & Flint, Dest. & usef. ins. 423-  
 430, 1928.  
 iMoore & Pepper, S. C. Ext. C. 84, 8-  
 12, 1926.  
 iRussell, Morrison & Ebling, Wis. B.  
 338, 60-61, 1926.  
 Starr, Ga. Coastal Plains B. 7, 24-25, '27.  
 Woodworth, Seed World 26; 13, 15, '29.
- \*Tobacco leaf-miner, *see* Phthorimaea  
 operculella**
- Tobacco stalk borer, *see* Trichobaris  
 mucorea**
- Tobacco thrips, *see* Frankliniella fusca**
- Tobacco wireworm, *see* Monocrepidius  
 vespertinus**
- Tobacco worm, *see* Protoparce quinque-  
 maculata**
- Tolania punctata**  
 inMetcalf & Bruner, Brklyn. Ent. Soc.  
 B. 20, 213-214, 1925.
- Tolyte candidatus**  
 nCassino, Lepidopterist 4, 90-91, 1928.
- Tolyte laricis**  
 Peirson, Me. For. Serv. B. 5, 78, 1927.
- Tolyte mollifacta**  
 nDyar, Ins. Insc. Mens. 14, 144, 1926.
- Tolyte nigricaria**  
 nCassino, Lepidopterist 4, 89-90, 1928.  
 nDyar, Proc. Ent. Soc. Wash. 30, 139-  
 140, 1928.
- Tomaspis bicincta**  
 Osborn, J. Ec. Ent. 19, 105-106, 1926.  
 Osborn, Ref. Bk. Sugar Indus. of  
 World 4, 49, 1926.
- Tomaspis varia**  
 bEarle, Facts about Sugar 22, 1018, '27.
- Tomato horn worm, *see* Protoparce  
 celius**
- Tomato insects**  
 Brown, Canning Trade, 48; 32, 20, '25.  
 Davis, The Canner, 66; 8, 15-16, 1928.  
 Davis, Canning Trade, 50, 23, 22, 1928.  
 Edwards, J. Jam. Agr. Soc. 33, 405-  
 407, 1929.  
 Palmer, Nat. Mag. 8, 160, 1926.  
 Wilkinson, Conn. Ext. B. 120, 13-15, '28.
- Tomato worm, *see* Protoparce sexta**
- Tomocera californica**  
 ibSmith & Compere, Cal. Univ. Pub.  
 Ent. 4, 317-321, 1928.
- Tomocera transversifasciata**  
 nGirault, Ins. Insc. Mens. 13, 91, 1925.
- Tomocerus flavescens**  
 Blake, Ill. Biol. Monog. 10; 4, 76, '26.
- Tornillo bagworm, *see* Oiketicus town-  
 sendi**
- Tornos benhamini**  
 iCassino & Swett, Lepidopterist 4, 43-  
 45, 1925.
- Tortoise beetle, *see* Coptocycla bicolor**
- Tortrix afflictana—Nova Scotia**  
 Gilliatt, Ont. Ent. Soc. R. 58, 38-39, '28.
- Tortrix citrana (Orange tortrix)**  
 iBasinger, Cal. Citrog. 12, 107, 342, '27.  
 iBasinger, Cit. Leaves 8; 2, 1, 30, 1928.  
 Merrill, Cal. R. f. 1924-25, 45, 1926.  
 Merrill, Cal. R. f. 1927-28, 35, 1929.  
 Watson, Fla. B. 183, 394-396, 1926.
- Tortrix fumiferana, *see* Harmologa fu-  
 miferana**
- Tortrix lambertiana**  
 Keen, Cal. Dept. Nat. Resources B. 7,  
 81, 1928.
- Tortrix pallorana**  
 Schott, J.N.Y. Ent. Soc. 33, 55, 1925.
- Tortrix quercifoliana (Oak leaf roller)**  
 —Conn. B. 265, 336, 1925.

**Tipulidae** *Cont'd*

Alexander, J.N.Y. Ent. Soc. 37, 89-99, 395-407, 1929.

Alexander, Can. Ent. 59, 214-225, 1927.

Fernald, Applied Ent. ed. 2, 307, 1926.

iPackard & Thompson, USDA Dept. C. 172 rev. Oct. 1929, 8 p.

Rogers, Fla. Ent. 10; 1, 5-7, 1926.

**Tipulidae larvae**

Muttikowski, N. Y. St. Col. Forestry, B. 2, 176-179, 1929.

Alexander, N. Y. Ent. Soc. J. 36, 47-59, 355-367, 1928.

Alexander, Boston Soc. Nat. Hist. Occas. Papers 5; 223-231, 1927.

Alexander, Bklyn. Ent. Soc. B. 24, 22-24, 1929.

Alexander, Bklyn. Ent. Soc. B. 24, 295-302, 1929.

Alexander, Ent. News 37, 291-297, '26.

Alexander, P.U.S.N.M. 64, Art. 10, 1925, 16 p.

Alexander, Can. Ent. 58, 236-240, 1926.

Alexander, Can. Ent. 60, 54-60, 1928.

Alexander, Can. Ent. 61, 231-236, 247-251, 1929.

**Tipulidae—Poisoned bait**

Watson, Fla. Dept. Agr. Quar. B. 39; 3, 219, 1929.

**Tischeria admirabilis**

nBraun, Trans. Amer. Ent. Soc. 51, 16-17, 1925.

**Tischeria cinereotunicella**

nBraun, Trans. Amer. Ent. Soc. 53, 195-196, 1927.

**Tischeria eikbladhellia**

Needham, Frost & Tothill, Leaf-mining insects, 1928, 56-58.

**Tischeria malifoliella** (Apple leaf trumpet miner)\*

iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 92-96.

**Tischeria mediotriata**

nBraun, Trans. Amer. Ent. Soc. 53, 197, 1927.

**Tischeria omissa**

nBraun, Trans. Amer. Ent. Soc. 53, 197-198, 1927.

**Tmetocera ocellana** (Eye spotted bud-moth)\*

Brittain, Ont. Ent. Soc. R. 59, 9, 1929.

Brittain, Fruit Gr. Assoc. Nov. Scotia R. 61, 72-74, 1925.

iBrittain, N. S. Dept. Nat. Resource B. 12, 28-29, 1927.

Crosby, et al, N.Y.C.B. 498, 19-20, 1929.

iiFrost, J. Agr. Res. 35, 347-359, 1927.

Gilliatt, Ont. Ent. Soc. R. 58, 27-39, '28.

Harman, J. Ec. Ent. 22, 660-662, 1929.

iiHarman, N. Y. (Geneva) C. 109, 1-10, 1929.

iHerrick, R.N.Y. 88; 5045, 326, 1929.

Kelsall, Fruit Gr. Assoc. Nova Scotia R. 61, 88-96, 1925.

Kelsall, Nova Scotia Frt. Grow. Assoc. R. 63, 26-28, 1926; R. 63, 46-52, 1926; R. 64, 24, 1927; R. 65, 76, 1929.

Merrill, Cal. R. f. 1927-28, 69, 1929.

Parrott, Amer. Frt. Grow. Mag. 49; 3, 11, 1929.

Parrott, N. Y. St. Hort. Soc. Proc. 74, 27-39, 1929.

Parrott & Harman, N. Y. Gen. C. 109, 1929, 10 p.

Petch & Armstrong, Quebec Soc. Protec. Plts. R. 17, 74, 1925.

Phipps, Me. Ext. C. 100, 4, 1929.

Spittall, Proc. Acadian Ent. Soc. 10, 17-20, 62, 1925.

Spittall, Ont. Ent. Soc. R. 58, 10-11, '28.

**Toad—Insect food**

iJohnson, U.S.D.A. YB 1927, 620-625, '28.

Rosenfeld, Sugar B. 6; 11, 3-6, 1928.

**\*Toadbug, see Gelastocoris oculatus****Tobacco beetle, (Cigarette beetle)\*, see Lasioderma serricorne****Tobacco blotch leaf miner, see Psara periusalis****Tobacco budworm, see Heliothis virescens****Tobacco cutworms**

Chamberlin, Fla. Grow. 33; 15, 19, '26.

iClark, Wis. B. 396, 101-103, 1927.

ICrumb, U.S.F.B. 1494, 1926, 12 p.

**\*Tobacco flea beetle, see Epitrix parvula**

- Tobacco hornworm, (Tomato worm)\*,  
see *Phlegethontia sexta*
- Tobacco insects  
Brannon, N. C. Ext. C. 174, 1929, 11 p.  
Brannon, S. Cult. 87; 14, 10, 1929.  
Brannon, West. Tobacco J. 56; 45, 29,  
30, 32, 34, 1929.  
iBritton & Anderson, Conn. Tobacco  
Expt. Sta. B. 6, 74T-93T, 1926.  
Brunson, S. C. Wkly. News Notes, 18;  
10, 1929, 1 p.  
Crumb, U.S.D.A. Tech. B. 88, 1929, 52 p.  
Howard, U.S.D.A. Ent. R. f. 1925, 26.  
Hunter, Can. Exp. Sta. Summerland,  
B.C.R. f. 1927, 55-57, 1928.  
iMason, Spraying, 494-497, 1928.  
iMetcalf & Flint, Dest. & usef. ins. 423-  
430, 1928.  
iMoore & Pepper, S. C. Ext. C. 84, 8-  
12, 1926.  
iRussell, Morrison & Ebling, Wis. B.  
338, 60-61, 1926.  
Starr, Ga. Coastal Plains B. 7, 24-25, '27.  
Woodworth, Seed World 26; 13, 15, '29.
- \*Tobacco leaf-miner, see *Phthorimaea*  
*operculella*
- Tobacco stalk borer, see *Trichobaris*  
*mucorea*
- Tobacco thrips, see *Frankliniella fusca*
- Tobacco wireworm, see *Monocrepidius*  
*vespertinus*
- Tobacco worm, see *Protoparce quinque-*  
*maculata*
- Tolania punctata*  
in Metcalf & Bruner, Brklyn. Ent. Soc.  
B. 20, 213-214, 1925.
- Tolyte candidatus*  
nCassino, Lepidopterist 4, 90-91, 1928.
- Tolyte laricis*  
Peirson, Me. For. Serv. B. 5, 78, 1927.
- Tolyte mollifacta*  
nDyar, Ins. Insc. Mens. 14, 144, 1926.
- Tolyte nigricaria*  
nCassino, Lepidopterist 4, 89-90, 1928.  
nDyar, Proc. Ent. Soc. Wash. 30, 139-  
140, 1928.
- Tomaspis bicincta*  
Osborn, J. Ec. Ent. 19, 105-106, 1926.  
Osborn, Ref. Bk. Sugar Indus. of  
World 4, 49, 1926.
- Tomaspis varia*  
bEarle, Facts about Sugar 22, 1018, '27.
- Tomato horn worm, see *Protoparce*  
*celius*
- Tomato insects  
Brown, Canning Trade, 48; 32, 20, '25.  
Davis, The Canner, 66; 8, 15-16, 1928.  
Davis, Canning Trade, 50, 23, 22, 1928.  
Edwards, J. Jam. Agr. Soc. 33, 405-  
407, 1929.  
Palmer, Nat. Mag. 8, 160, 1926.  
Wilkinson, Conn. Ext. B. 120, 13-15, '28.
- Tomato worm, see *Protoparce sexta*
- Tomocera californica*  
ibSmith & Compere, Cal. Univ. Pub.  
Ent. 4, 317-321, 1928.
- Tomocera transversifasciata*  
nGirault, Ins. Insc. Mens. 13, 91, 1925.
- Tomocerus flavescens*  
Blake, Ill. Biol. Monog. 10; 4, 76, '26.
- Tornillo bagworm, see *Oiketicus town-*  
*sendi*
- Tornos benhamini  
iCassino & Swett, Lepidopterist 4, 43-  
45, 1925.
- Tortoise beetle, see *Coptocycla bicolor*
- Tortrix afflictana*—Nova Scotia  
Gilliatt, Ont. Ent. Soc. R. 58, 38-39, '28.
- Tortrix citrana* (Orange tortrix)  
iBasinger, Cal. Citrog. 12, 107, 342, '27.  
iBasinger, Cit. Leaves 8; 2, 1, 30, 1928.  
Merrill, Cal. R. f. 1924-25, 45, 1926.  
Merrill, Cal. R. f. 1927-28, 35, 1929.  
Watson, Fla. B. 183, 394-396, 1926.
- Tortrix fumiferana*, see *Harmologa fu-*  
*miferana*
- Tortrix lambertiana*  
Keen, Cal. Dept. Nat. Resources B. 7,  
81, 1928.
- Tortrix pallorana*  
Schott, J.N.Y. Ent. Soc. 33, 55, 1925.
- Tortrix quercifolia* (Oak leaf roller)  
——Conn. B. 265, 336, 1925.

- Tortrix viridana** (Green oak tortrix)  
 Balch, U. S. Forest Worker 4; 2, 18, '28.  
 Dohanian, J. Ec. Ent. 20, 313, 1927.  
 Webber, J. Ec. Ent. 20, 307, 1927.
- Toumeyella liriiodendri** (Tulip tree scale)  
 iBritton & Zappe, Conn. B. 292, 152, '27.  
 iTrimble, Pa. Dept. Agr. B. 8, 2, 6-7, 1925.  
 Trimble, Pa. Dept. Agr. B. 480, 7, 1929.
- Toumeyella pinicola** (Pine scale)  
 iKeen, Cal. Dept. Nat. Resources B. 7, 90, 1928.
- Toumeyella** sp.  
 Hadley, J. Ec. Ent. 18, 749-751, 1925.
- Townsendia argyratea**  
 nCurran, Amer. Mus. Nov. 220, 1-2, '26.
- Toxomerus marginatus**  
 ibFluke, Wis. Res. B. 93, 33-34, 1929.
- Toxonotherips**—n. gen.  
 nMoulton, Pan-Pac. Ent. 4, 30, 1927.
- Toxonotherips gramineae**  
 nMoulton, Pan-Pac. Ent. 4, 30-31, 1927.
- Toxonotus fascicularis**  
 Blatchley, J.N.Y. Ent. Soc. 33, 88, '25.
- Toxoptera graminum** (Green bug)\*  
 Ainslie, J. Ec. Ent. 19, 800-801, 1926.  
 Baker, J. Ec. Ent. 19, 648-650, 1926.  
 Cook, Ecology, 10, 288, 1929.  
 Cooper, Ky. R. 39, 19, 1927.
- liGarman**, Ky. B. 265, 44-47, 1926.  
 King, Sci. Agr. 9, 384, 1929.
- iPettit**, Mich. Ent. R. f. 1927, 18-19, '27.  
**iPettit**, Mich. St. Bd. Agr. R. 66, 354-355, 1928.  
 Pettit, Mich. Sp. B. 183, 56, 1929.  
 Rude, Okla. Ext. News 7; 6, 4, 1926.
- iRuggles & Wadley**, J. Ec. Ent. 20, 321-327, 1927.
- bWadley**, Proc. Ent. Soc. Wash. 31, 130-134, 1929.
- Toxotarsini**  
 Shannon, Proc. Ent. Soc. Wash. 28, 122, 1926.
- Toxotropis floridanus**  
 Blatchley, J.N.Y. Ent. Soc. 33, 88, '25.
- Toxotropis pusillus**  
 Blatchley, J. N. Y. Ent. Soc. 33, 88, '25.
- Toxotrypana curvicauda** (Papaya fruit fly)\*  
 iGreen, J. Ag. Res. 38, 491-492, 1929.  
 Moznette, Fla. St. Pl. Bd. Quar. B. 11, 119-120, 1927.
- Toy beetle**, *see* *Leucopholis irrorata*
- Trabala vishnu** (Castor hairy caterpillar)  
 iMjoberg, Psyche 33; 1, 6-7, 1926.
- Trachandrena** (Hymenoptera)  
 Cockerell, Ann. Ent. Soc. Amer. 22, 754-758, 1929.
- Trachykele blondeli** (Western cedar pole borer)  
 ibBurke, USDA Tech. B. 48, 1928, 15 p.  
 Hopping, Can. Ent. 59, 201-204, 1927.  
 ilHopping, Can. Dept. Agr. Pam. 94, n.s. 1928, 17 p.  
 Swaine, Canada Dept. Agr. Pam. 97, 15, 1928.
- Trachykele lecontei**  
 Champlain & Knull, Can. Ent. 57, 113, '25.
- Trachykele nimbosea**  
 Van Dyke, Pan-Pac. Ent. 2, 126, 1926.
- Trachypella**—subgen.  
 Spuler, Can. Ent. 57, 103, 1925.
- Trachypachus slevini**  
 nVan Dyke, Pan. Pac. Ent. 1, 111, 1925.
- Trachyrhinus sonoranus**  
 nChamberlin, P.U.S.N.M. 68, Art. 7, 172, 173, 1925.
- Trachythrips**—n. gen.  
 niDouglas, Bklyn. Ent. Soc. B. 24, 317-320, 1929.
- Trachyuropoda longa**  
 Miller, Ohio B. 386, 139, 1925.
- Tragopa bicolor**  
 nGoding, Bklyn. Ent. Soc. B. 23, 142, '28.
- Tragopa guianae**  
 niHaviland-Brindley, Zoologica, N. Y. 6, 247, 1925.
- Tragopa irrorata, obesa**  
 nGoding, Bklyn. Ent. Soc. B. 23, 141-142, 1928.
- Tragopa occulta**  
 niHaviland-Brindley, Zoologica N. Y. 6, 248, 1925.
- Tragopa zebra**  
 nGoding, Bklyn. Ent. Soc. B. 23, 141, '28.

**Tragosoma depsarium**

Champlain, Kirk & Knull, Ent. News  
36, 105, 1925.

**Trailer, see Ephoron album****Transverse poplar leaf gall, see Pemphigus populitransversus****Traps for insects**

Frost, Pa. St. Col. B. 225, 10, 1928.

iFrost & Dietrich, Ann. Ent. Soc.  
Amer. 22, 427-437, 1929.

iHeistand, Ent. News 39, 158-160, 1928.  
Champlain & Kirk, Ent. News 37, 288-  
291, 1926.

True, Iowa St. Hort. Soc. Tr. 63, 25-  
27, 1928.

U. S. Oil, Paint & Drug Report, 108:  
21, Ag. 31, 1925.

**Traps for insects—Beta naphthol bands**

Worthley, Pa. St. Hort. Soc. Assoc.  
News 6; 1, 83, 1929.

**Traps for insects—Burlap bands**

Fisk, Can. Ent. 60, 183-184, 1928.

**Traps for insects—Elliscope Jap Beetle trap**

Frisell, Flor. Exch. 65, 1289, 1927.

**Traps for insects—Insect electrocutor**

Nixon, Cornell Countryman 25; 6, 21,  
1927.

**Traps for insects—Light traps**

Burritt, Amer. Agr. 124, 268, 1929.

Easter, Electric. World 90, 744-745, '27.  
Herms & Burgess, Elect. West. 60; 4,  
205, 1928.

Luckiesch, Holladay & Taylor, J.  
Franklin Inst. 208, 73-83, 1929.

Parrott, N. Y. Empire St. Gas. & Elec.  
Ass. Prog. Rept. 1927, 12 p.

**Traps for insects—Maggot traps**

Masterson, C. Gentlm. 93; 7, 75, 1928.

**Traps for insects—Trap crops**

Rosenfeld, J. Ec. Ent. 18, 639-640, '25.  
Seamans, Ont. Ent. Soc. R. 59, 59-64, '29.  
Smyth, J. Ec. Ent. 18, 550-552, 1925.

**Trash bugs, see Chrysopa spp. and Heme-robious sp.****Trechus ruficollis**

nVan Dyke, Pan-Pac. Ent. 2, 66-67, '25.

**Tree banding**

Fisk, Can. Ent. 60, 183-184, 1928.

Flint & Goff, J. Ec. Ent. 22, 675-679, '29.

**Tree borer**

iBritton, Tree Talk 7; 3, 11-13, 1926.

ibHosley, J. For. 26; 7, 388-391, 1928.

**Treehoppers, see Membracidae****Tree inoculation—Against scale**

—Cal. Cit. 13, 439, 1928.

**Tree toad chigger, see Trombicula hylae****Tremex columba (Pigeon tremex)\***

iHerrick, Rur. N. Y. 84, 1348, 1925.

iPeirson, Me. For. Serv. B. 5, 87, 1927.

**Trepobates comitalis**

nDrake & Harris, Fla. Ent. 12, 7-8, '28.

**Trepobates floridensis**

nDrake & Harris, Ohio J. Sci. 28, 273, '28.

**Trepobates knighti, trepidus**

nDrake & Harris, Proc. Biol. Soc. Wash.  
41, 27-29, 1928.

**Trianaodes marginata**

nSibley, J.N.Y. Ent. Soc. 34; 1, 80, '26.

**Trialeurodes floridensis (Avocado white-fly)\***

Watson, Fla. B. 183, 346, 1926.

**Trialeurodes packardi (Strawberry whitefly)\***

Scholl & Stephens, Tex. Dept. Agr. B.  
84, 19-20, 1925.

**Trialeurodes vaporariorum (Greenhouse whitefly)\***

iBrittain, N. S. Dept. Nat. Res. B. 12,  
131, 1927.

iGibson & Twinn, Can. Dept. Agr. B.  
112, 54-55, 1929.

Ogilvie, Bermuda Dept. Agr. B. 8, 31-  
32, 1929.

iSeverin, So. Dak. Ent. R. 15, 44-49, '24.

**Triarius suturalis**

nMartin, Pan-Pac. Ent. 5, 34, 1928.

**Triaspis curculionis**

Garman & Zappe, Conn. B. 301, 399, '29.

**Triatoma cruzi**

iChandler, Animal Parasites, ed. 3, 109-  
112, 1925.

**Triatoma geniculata**

Chandler, Animal Parasites, ed. 3, 112, '25.

Dunn, Amer. J. Trop. Med. 9, 505-506,  
1929.



*Triatoma infestans* and *filaria*

Davis, Am. J. Hyg. 8: 3, 458, 1929.

*Triatoma protracta*

Chandler, Animal Parasites, ed. 3, 112, '25.

*Triatoma rubrofasciata*

Chandler, Animal Parasites, ed. 3, 112, 1925.

*Triatoma sanguisuga* (Blood-sucking conenose)\*

iChandler, Animal Parasites, ed. 3, 379, '25.

Walker, Flower Grower, 16, 304, 1929.

*Triatoma* sp. and trypanosomiasis

Strong, Harvard Inst. Trop. Biol. & Med. Cont. 4, 107, 1926.

*Tribolium confusum* (Confused flour beetle)

iBack & Cotton, U.S.F.B. 1260; rev. Dec. 1925, 34-35.

Cooley, Mont. B. 170, 27, 1925.

iGibson & Twinn, Can. Dept. Agr. B. 112, 34, 1929.

ibMarshall, Wis. Acad. Sci. Tr. 23, 611-630, 1927.

biPayne, J. Ec. Ent. 18, 737-744, 1925.

Schenk, Kans. Ent. Soc. J. 2, 60-66, '29.

*Tribolium ferrugineum* (Rust-red flour beetle)

Gibson & Twinn, Can. Dept. Agr. B. 112, 34-35, 1929.

*Tricanthagyna trifida*

Byers, Ent. News 39, 237, 1928.

*Trichacis cornuta*, *texanus*

nFouts, Proc. Ent. Soc. Wash. 27, 93-94, 1925.

*Trichacorynus sulcirostris*

nBlatchley, N. Y. Ent. Soc. Jour. 36, 259, 1928.

*Trichaeta boguimil*, *democedes*

nSchaus, Proc. Ent. Soc. Wash. 30, 50-51, 1928.

*Trichalophus brunneus*

nVan Dyke, Pan-Pac. 4, 15, 1927.

*Trichalophus foveirostris*

nChittenden, Proc. Ent. Soc. Wash. 27, 141, 1925.

*Trichestema helcostizoides*

niCushman, P.U.S.N.M. 72; 13, 9-10, '28.

*Trichestema*—n. gen.

niCushman, P.U.S.N.M. 72; 13, 9, 1928.

*Trichiocampus viminalis* (Poplar saw-fly)

ibDownes, Proc. Ent. Soc. B. C. 22, 26-32, 1925.

Peirson, Me. For. Serv. B. 5, 114, 1927.

Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 28, 1926.

*Trichiosoma sericea*—Siberia

Rohwer, P.U.S.N.M. 68, Art. 8, 2, '25.

*Trichiotinus niger*

Davis, Ind. Acad. Sci. Proc. 41, 317, '25.

*Trichobaris mucorea* (Tobacco stalk borer)

Morrill, Cal. Dept. Agr. Sp. Pub. 73, 78, 1927.

*Trichobaris trinotata* (Potato stalk borer)\*

Compton, Ill. C. 297, 21, 1925.

*Trichobius phyllostomae* 15, *sparsus* 17, spp.—Key 14, *truncatus* 17

niKessel, J.N.Y. Ent. Soc. 33, 1925.

*Trichocera columbiana*

nAlexander, Can. Ent. 59, 70, 1927.

*Trichocera fernaldi* 70-71, *garretti* 71-72, *longisetosa* 69, *salmani* 72-73, *setosivena* 68-69

nAlexander, Can. Ent. 59, 1927.

*Trichochrous albertensis*, *fieldii*

nBlaisdell, Pan-Pac. Ent. 4: 2; 50-52, '27.

*Trichochrous kernensis*

nBlaisdell, Can. Ent. 58, 9-10, 1926.

*Trichochrous margaritae*

nBlaisdell, Proc. Cal. Acad. Sci. ser. 4, 14, 323-324, 1925.

*Trichochrous muiri*

nBlaisdell, Pan-Pac. Ent. 3, 165-166, '27.

*Trichochrous reticulicollis*, *vicinus*

nBlaisdell, Can. Ent. 58, 10-12, 1926.

*Trichochrous zionicus*

niTanner, Ann. Ent. Soc. Amer. 21, 272-273, 1928.

*Trichocorixa* for *Corixa*

Hungerford, Brooklyn Ent. Soc. B. 22, 96, 1927.

*Trichocryptus atlanticus*

nCushman, P.U.S.N.M. 76; 25, 3, 1929.

*Trichocryptus bicolor*

niCushman, P.U.S.N.M. 72; 13, 8, 1928.

**Trichodectes bovis**

iEssig, Insects of West. No. Amer.  
1926, 131-132.

**Trichodectes climax**

iImes, U.S.D.A. Leaf. 13, 1928, 8 p.  
iImes, No. Amer. Vet. 9: 8; 59, 1928.

**Trichodectes equi (Biting goat louse)**

Hall, Kans. Ent. Soc. J. 2: 78-79, 1929.

**Trichodectes hermsi (Hairy red goat louse)**

Imes, U.S.D.A. Leaf. 13, 1928, 8 p.

**Trichodectes latus (Biting dog louse)**

iHall, U.S.D.A. Dept. C. 338, '25, 13-16.  
iHall, Kans. Ent. Soc. J. 2: 78, 1929.  
——Conn. B. 265, 336, 1925.

**Trichodectes ovis**

Stevenson, Ont. Dept. Agr. B. 337, 25,  
1928.

**Trichodectes scalaris (Biting cattle louse)**

Guyton, Ala. Expt. Sta. R. 35, 15, 1924  
(1928?)

Guyton, Ala. R. 36, 14, 1925 (1928).

**Trichodectes sphaerocephalus (Red-headed sheep louse)**

iImes, No. Amer. Vet. 9: 8, 59, 1928.  
iImes, U.S.D.A. Leaf. 13, 8 p., 1928.

**Trichodectes vocia**

iBrittain, N. S. Dept. Nat. Res. B. 12,  
110-111, 1927.

**Trichofeltia—n. gen.**

nBarnes & Benjamin, Brooklyn Ent.  
Soc. B. 24, 177-178, 1929.

**Trichogramma evanescens**

Hase, Internat. Corn Borer Invest. Sci.  
R. 2, 85-89, 1929.

Hergula, Internat. Corn Borer Invest.  
Sci. R. 2, 120-121, 1929.

**Trichogramma minutum**

Alden, J. Ec. Ent. 22: 822, 1929.

Baird, Ont. Ent. Soc. R. 59, 40, 1929.

Barre, S. C. R. 42; 64, 1929.

Box, Sugar B. 6: 11, 1, 1928.

Earle, Facts about Sugar 22, 969, 1927.

iFlanders, Flor. Exch. 66; 9, 727-728, '27.

Flanders, J. Ec. Ent. 20, 644, 1927.

Flanders, Internat. Cong. Ent. 4, Tr. 2,  
110-130, 1929.

Garman, Conn. B. 285, 236-237, 1926

Hinds, Sugar B. 6: 10, 1-3, 1928.

Hinds, Sugar B. 6: 20; 5, 1928.

Hinds, Internat. Cong. Ent. 4, Tr. 2,  
1029-1035, 1929.

Hinds, Sugar B. 7: 23, 12, 1929.

iHinds & Spencer, J. Ec. Ent. 21, 273-  
278, 1928.

Hinds & Spencer, J. Ec. Ent. 22, 633-  
636, 1929.

Holloway, Internat. Soc. Sugar Cane  
Tech. Proc. 2d. Confer. 67-68, 1927.

Holloway, Planter & Sugar Mfg. 80,  
241, 1928.

Ingram, U.S.F.B. 1543, 12, 1927.

libMartin, Ent. Amer. 8, 105-131, 1927.

Merrill, Cal. R. f. 1927-28, 57, 1929.

Peterson, Ont. Ent. Soc. R. 49, 83-84, '29.

ibPlank, Anns. Ent. Soc. Amer. 22, 634-  
636, 1929.

Rosenfeld, Facts about Sugar 21, 1207,  
1926.

Rosenfeld, Trop. Plant Res. Found.  
Sci. Cont. 6, 18, 1926.

Sein, Porto Rico Insul. R. f. 1927-8,  
97, 1929.

Smith, Ont. Ent. Soc. R. 59, 77-80, '29.

Spencer, J. Ec. Ent. 22, 602, 1929.

Thone, Sci. Supp. 68: 1757, x-xiv, 1928.

iThone, Sci. News Letter 15, 289-301, '29.

iWishart, Can. Ent. 61, 73-76, 1929.

Wishart, Sci. Agr. 9: 9, 616-617, 1929.

Wolcott, Facts about Sugar 24, 638, '29.

**Trichogramma pretiosa, see Trichogramma minutum**

**Trichogramma sp.**

Baird, Ont. Ent. Soc. R. 59, 39, 1929.

Flanders, Cal. Garden. 20; 14, 16, '29.

Flanders, J. Ec. Ent. 22, 245-248, 1929.

Flanders, Pac. Rur. Press, 118: 82, '29.

Hinds, Planter & Sugar Mfg. 83, 197, '29.

bHinds & Spencer, Ref. Bk. Sugar In-  
dust of World, f. 1928, 64-65.

Myers, Planter & Sugar Mfg. 83, 345,  
1929.

**Trichogrammatomyia tortricis**

Thatcher, N. Y. Gen. R. 45, 37, 1926.

**Tricholeptomyia, n. gen.**

Dyar & Shannon, Ins. Insc. Mens. 13,  
72-73, 1925.

- Tricholyga segregata*  
Burgess & Crossman, U. S. Tech. B. 86, 114, 1929.
- Trichonta fusciventris*  
in Van Duzee, Cal. Acad. Sci. Proc. 17; 2, 43, 1928.
- Trichophaga tapetzella* (Carpet moth)\*  
Fernald, Applied Ent. ed. 2, 239-240, '26.  
McDaniel, Mich. C. B. 104, 6-7, 1927.  
Mullin, Textile Colorist 47, 160, 1925.
- Tricophalus nigribasis*  
nCurran, Can. Ent. 59, 255-256, 1927.
- Trichopoda pennipes*  
Watson, Fla. R. f. 1928, 46R.
- Trichopolia suspicionis*  
nBarnes & Benjamin, Pan-Pac. Ent. 2, 18-19, 1925.
- Trichopria abdominalis*  
nFouts, Proc. Ent. Soc. Wash. 28, 174, '26.  
Fouts, Proc. Wash. Ent. Soc. 29, 168, '27.
- Trichopria cubensis* 171-172, *illinoisensis* 173, *popenoei* 172-173  
Fouts, Proc. Ent. Soc. Wash. 28, 1926.
- Trichopsylla lotoris*  
niStewart, Ins. Insc. Mens. 14, 122-124, 1926.
- Trichoptera* spp.  
Fernald, Applied Ent. ed. 2, 228, 1926.  
bKafka, Ann. Ent. Soc. Amer. 19, 281-285, 1926.  
Muttkowski, N. Y. St. Col. Forestry B. 2, 183, 1929.  
Sibley, Lloyd Lib. B. 27, 102-108, 1926.  
iSibley, Lloyd Lib. B. 27, 185-221, 1926.
- Trichostictia*—n. gen., *brunneri*  
niParker, Proc. U.S.N.M. 75; 5, 14-17, 29.
- Trichotanypus persimilis*  
nJohannsen, Can. Ent. 58, 99-100, 1926.
- Trichotaphe stipendiaria*  
nBraun, Tr. Amer. Ent. Soc. 51, 196-197, 1925.
- Trichothrips calcaratus*  
nHood, Psyche 32, 57-58, 1925.
- Trichothrips fumiceps*  
nHood, Brooklyn Ent. Soc. B. 20, 29, '25.
- Trichothrips pergandei*  
niHood, Proc. Ent. Soc. Wash. 29, 115-116, 1927.
- Tricinctae*—Key to females  
Rohwer, J. Wash. Acad. Sci. 17, 150-151, 1927.
- Triclema lamias*  
Clark, Smith. Inst. R. f. 1925, 507, '26.
- Triclistus propinquus*  
Baldus, Ohio J. Sci. 29, 234-235, 1929.
- Tricorythus explicatus*  
iNeedham & Christenson, Utah B. 201, 12-13, 1927.
- Tricyphona crassipyga*  
nAlexander, N. Y. Ent. Soc. J. 36, 48-49, 1928.
- Tricyphona inconstans*  
iJohnson, Psyche 34, 216-217, 1927.
- Tricyphona stenoptera*  
niAlexander, P.U.S.N.M. 72: 2, 16-17, '28.
- Tridactylus apicalis* (Larger sand cricket)  
Hebard, Tr. Amer. Ent. Soc. 51, 303, '25.
- Triepeolus pacis*  
nCockerell, Proc. Cal. Acad. Sci. 14, ser. 4, 11, 200-202, 1925.
- Triepeolus rufithorax*  
nGraenicher, Ent. News 39, 279, 1929.
- Triepeolus subnitens*  
nCockerell & Timberlake, Pan-Pac. Ent. 5, 167-169, 1929.
- Triepeolus tanneri*  
nCockerell, Psyche 35, 332, 1928.
- Triepeolus timberlakei*  
nCockerell, Pan-Pac. Ent. 5, 101, 1929.
- Triepeolus trichopygus*  
nCockerell & Timberlake, Pan-Pac. Ent. 5, 169-170, 1929.
- Trigona cupira*  
Schwarz, Tr. Amer. Ent. Soc. 55, 145-149, 1929.
- Trigona laeviceps*  
Cockerell, J. Ec. Ent. 18, 836, 1925.  
Cockerell, J. Ec. Ent. 19, 188-189, 1926.
- Trigonaspis cupella*  
nWeld, P.U.S.N.M. 68, Art. 10, 50-51, '26.
- Trigonometopsis punctipennis*  
nMalloch, P.U.S.N.M. 74: 6, 37-38, 1929.
- Trigonura californica*  
Burke, U.S.D.A. Tech. B. 83, 26, 1929.
- Trimerinoides* n. gen.  
Cresson, Ent. News 36, 165, 1925.

- Trimerotropis agrestis, albolineata*  
Hubbell, Fla. Ent. 9, 44, 1925.
- Trimerotropis campestris*  
Buckell, Proc. Ent. Soc. B. C. 25; 12-13, 1928.
- Trimerotropis diversellus*  
Hillebrand, Phila. Acad. Nat. Sci. Proc. 80, 255-258, 1928.
- Trimerotropis huroniana*  
Hubbell, Fla. Ent. 9, 44, 1925.  
Hubbell, N. Y. Ent. Soc. Jour. 37, 31-39, 1929.
- Trimerotropis rubripes*  
Hubbell, Fla. Ent. 9, 44-45, 1925.
- Trinidadia n. gen.*  
Dyar & Heinrich, P.U.S.N.M. 71: 19, 5, 1928.
- Trinodia setosifrons*  
Knaus, Ent. News 39, 6, 1928.
- Trioxys communis, struma*  
Gahan, P.U.S.N.M. 70; 8, 4-6, 1927.
- Trioxa diospyri (Persimmon psylla)\**  
Britton, Conn. B. 285, 277, 1927.  
Eddy, Ohio J. Sci. 27, 192-198, 1927.
- Trioxa tripunctata (Blackberry psyllid)*  
Britton, Conn. B. 294, 298, 1928.  
Peterson, Fruit Belt 21; 7, 3-5, 1923.  
Pettit, Mich. Ent. R. f. 1926, 14-15.  
Pettit, Mich. Bd. Agr. R. 65, 276, 1927.
- Trioxa urticae*  
Ferris, Can. Ent. 57, 46, 1925.
- Triphaena flavotincta*  
Barnes & Benjamin, Can. Ent. 58, 306, 1926.
- Triphaena oblata*  
Barnes & Benjamin, Can. Ent. 59, 4, 27.
- Triphaena plebeija*  
Barnes & Benjamin, Brklyn. Ent. Soc. B. 24, 178, 1929.
- Triphleps insidiosus*  
Luginbill, U.S.D.A. Tech. B. 34, 84, '28.
- Triphseuxoa deeringi*  
Schaus, Wash. Ent. Soc. Proc. 31, 47, 1929.
- Trirhabda canadensis*  
Baldus, Ent. News 40, 35-39, 1929.
- Trirhabda nigrohumeralis*  
Brisley, Tr. Amer. Ent. Soc. 51, 172, 1925.
- Tritogenaphis escalantis*  
Knowlton, Pan-Pac. Ent. 79-84, 1928.
- Tritogenaphis gutierrezia*  
Pack & Knowlton, Can. Ent. 61: 203-204, 1929.
- Tritogenaphis kosacaudis*  
Knowlton, Pan-Pac. Ent. 5, 79-84, '28.
- Tritogenaphis utahensis*  
Pack & Knowlton, Can. Ent. 61; 202-203, 1929.
- Tritoxa flexa (Black onion fly)*  
Chittenden, Can. Ent. 59, 1-4, 1927.
- Tritropidia utahensis*  
Goding, J.N.Y. Ent. Soc. 37, 167, 1929.
- Trixoneura, n. gen.*  
Shannon, Proc. Ent. Soc. Wash. 28, 121, 1926.
- Troctes divinatoria (Booklouse)\**  
Back & Cotton, U.S.F.B. 1260; rev. Dec. 1925, 41.  
Hungerford, Kans. St. Bd. Agr. Bien. R. 24, 98, 1924.  
Lieber, Ind. Dept. Conserv. R. 8, 46, '26.  
McDaniel, Mich. Circ. B. 101, 11, 1928.  
Noland, Tr. Wis. Acad. Sci. 21, 195-208, 1924.  
Spencer, Ont. Ent. Soc. R. 59, 38, '29.
- Troglosternus ecitonis*  
Mann, Psyche 32, 172-173, 1925.
- Trogoderma ornata*  
Mutchler & Weiss, N. J. Dept. Agr. C. 108, 11-12, 1927.
- Trogoderma sinistra*  
Fall, Pan-Pac. Ent. 2, 193-194, 1926.
- Trogoderma spp.—Key*  
Mutchler & Weiss, N. J. Dept. Agr. C. 108, 23, 1927.
- Trogoderma versicolor*  
Mutchler & Weiss, N.J. Dept. Agr. C. 108, 12, 1927.
- Trogophloeus alaskanus*  
Fall, Pan-Pac. Ent. 2, 146, 1926.
- Trogophloeus teres*  
Fall, Pan-Pac. Ent. 2, 146-147, 1926.
- Trogus nigrocinctus*  
Hayes, Ent. News 36, 306-308, 1925.
- Tromatobia zonata*  
Auten, Ann. Ent. Soc. Amer. 18, 243, '25.

**Trombicula akamushi**

Chandler, Animal Parasite, ed. 3, 190-191, 1925.

**Trombicula alleei**

nEwing, Ent. News 37, 111-112, 1920.

**Trombicula australis**

nEwing, Proc. Ent. Soc. Wash. 31, 10-11, 1929.

**Trombicula bisignata**

nEwing, Ent. News, 40, 295-296, 1929.

**Trombicula brasiliensis**

nEwing, Proc. Ent. Soc. Wash. 27, 91-92, 1925.

**Trombicula centropodis**

nEwing, Proc. Ent. Soc. Wash. 30, 78-79, 1928.

**Trombicula deliensis—pseudo-typhus**

Chandler, Animal Parasites, ed. 3, 190, 1925.

**Trombicula dentata**

niEwing, Amer. J. Trop. Med. 5, 257-258, 1925.

**Trombicula gymnodactyli**

nEwing, Proc. Ent. Soc. Wash. 27, 145-146, 1925.

**Trombicula harperi**

Ewing, Proc. Ent. Soc. Wash. 30, 79, '28.

**Trombicula hylae**

nEwing, Proc. Ent. Soc. Wash. 27, 146, 1925.

biEwing, Ann. Ent. Soc. Amer. 19, 261-267, 1926.

**Trombicula insularis**

nEwing, Amer. J. Trop. Med. 5, 260, '25.

**Trombicula irritans (Chigger)\***

biEwing, Amer. J. Trop. Med. 5, 253-254, 1925.

iEwing, Proc. Biol. Soc. Wash. 38, 17, '25.

Ewing, Proc. Biol. Soc. Wash. 39, 19-20, 1926.

iHall, U.S.D.A. Dept. C. 338, 10-11, '25.

Schwartz & Shook, USDA, FB 1568, 10-11, 1928.

iSwenk & Musshel, Neb. C. 37, 25, 27, '28.

**Trombicula microti**

bnEwing, Proc. Ent. Soc. Wash. 30, 80, '28.

**Trombicula myotis**

nEwing, Ent. News: 40; 294-295, 1929.

**Trombicula nigeriensis**

nEwing, Proc. Ent. Soc. Wash. 30, 78, '28.

**Trombicula oregonensis**

nEwing, Proc. Wash. Ent. Soc. 31, 11, '29.

**Trombicula panamensis**

niEwing, Am. J. Trop. Med. 5, 259-260, 1925.

**Trombicula peruviana**

nEwing, Ent. News 27, 112-113, 1926.

**Trombicula shannoni**

nEwing, Proc. Ent. Soc. Wash. 31, 10, '29.

**Trombicula spp.**

Bequaert, United Fruit Co. Med. Dept. R. 13, 203, 1925.

Bushnell & Brandly, Kans. Manhat. B. 247, 82, 1920.

C. K., Rur. N. Y. 87, 1252, 1928.

Ewing, Am. J. Trop. Med. 5, 257, 1925.

Ewing, Ent. News 37, 113, 1926.

Ewing, Proc. Ent. Soc. Wash. 30, 77-80, 1928.

**Trombicula tlalzahuatl**

Bishopp, Nat. Poult. Butter & Egg. B. 12; 10, 25, 1928.

Bux, Farm & Ranch 44; 45, 16, 1925.

Ewing, Am. J. Trop. Med. 5, 251-265, '25.

iEwing, J. Ec. Ent. 18, 827-829, 1925.

Ewing, J. Wash. Acad. Sci. 17, 182, '27.

Felt, N. Y. St. Mus. B. 274, 51-52, 1928.

iHungerford, Kans. St. Bd. Agr. Bien. R. 24, 93-95, 1924.

Miller, Ohio Bi-Mo. 10; 7, 112-114, '25.

Miller, Ohio B. 386, 118-119, 1925.

Miller, Science, 61, 345-346, 1925.

Wood, Farm & Ranch, 45; 32, 17, 1926.

**Trombicula whartoni**

nEwing, Ent. News; 40, 296, 1929.

**Trombididae and disease**

Bequaert, Harvard Inst. Trop. Biol. & Med. Cont. 4, 175-177, 1926.

**Trombidium giganteum**

Miller, Ohio B. 386, 120, 1925.

**Trombidium muscarum**

Miller, Ohio B. 386, 120, 1925.

**Tropaea luna (Luna moth)\***

iClark, Sci. Mo. 23, 304, 1926.

G.W.H., R.N.Y. 88, 1005, 1929.

Howard, Ent. News 36, 274, 1925.

iPeirson, Me. For. Serv. B. 5, 40-42, '27.

Swaine & Hutchings, Can. Dept. Agr. Ent. B. 28, 34, 1926.

- Tropical cattle tick*, *see* *Margaropus annulatus australis*
- Tropical fowl mite*, *see* *Liponyssus bursa*
- Tropidaspis cornuta*  
niHaviland-Brindley, Zoologica, N.Y. 6, 261, 1925.
- Tropidaspis jubata*  
nGoding, Tr. Amer. Ent. Soc. 52, 104, '26.
- Tropidaspis minor*  
niHaviland-Brindley, Zoologica, N.Y. 6, 259, 1925.
- Tropidia pygmaea*  
nShannon, P.U.S.N.M. 69, Art. 9, 10, '26.
- Tropidischia xanthostoma*  
iCaudell, Proc. Ent. Soc. Wash. 30, 105, 1928.  
ibFulton, Ent. News 39, 8-11, 1928.
- Tropidocyta bulbosa*, *neglecta*, *pruinosa*  
niHaviland-Brindley, Zoologica, N. Y. 6, 236, 1925.
- Tropisms in Lepidoptera**  
McIndoo, J. Wash. Acad. Sci. 19, 153-154, 1929.  
McIndoo, Sm. Misc. Coll. 81, 1929, 59 p.
- Tropisternus salsamentus*  
Blaisdell, Pan-Pac. Ent. 1, 169, 1925.
- Trout stream insects—Food**  
bMuttikowski & Smith, Roosevelt Wild Life Annals, 2, 241-263, 1929.
- Trox sp.**  
Hayes, Ann. Ent. Soc. Amer. 21, 294, '28.
- Truck crop insects**  
Compton, Canning Trade, 48; 50, 8, '25.  
Compton, Canning Trade, 48; 51, 8, '25.  
Compton, Canning Trade, 48; 52, 8, '25.  
Compton, Ill. C. 297, 1925, 45 p.  
Compton, Ill. Hort. Soc. Tr. 58, 168, '25.  
Compton, Ill. Hort. Soc. Tr. 59, 304-318, 1926.  
Compton, Ill. Hort. Soc. Tr. 60, 408-429, 1927.  
Cory, Md. Agr. Soc. Farm Bur. Fed. R. 8, 378-381, 1923.  
Cory, Md. Agr. Soc. R. 8, 378-382, 1924.  
Horsfall, Penn. St. Hort. Assoc. Proc. 65, 143-144, 1924.  
Lieber, Ind. Dept. Conserv. R. 7, 49-53, 1925.  
Lieber, Ind. Dept. Conserv. R. 8, 47-49, 1926.
- iMason, Spraying. 403-487, 1928.  
iMetcalf & Flint, Dest. & usef. ins. 431-519, 1928.  
Mote, Oreg. C. 65, 1926, 40 p.  
O'Dell, Ariz. Com. Agr. Hort. R. 15-16, 59-60, 1925.  
O'Dell, Ariz. Com. Agr. Hort. R. 15-16, 66, 1925.  
Perkins, Rur. N.Y. 87, 4987, 88-89, '28.  
Ross & Caesar, Ont. Ent. Soc. R. 58, 18-19, 1928.  
iTalbert, Amer. Produce Gr. 4: 8, 8-9, 1929.  
Wallace, Ind. Ent. R. 1927, 30-34.  
Wallace, Ind. Dept. Conserv. R. 10, 65-66, 1929.
- Trumanda schiffi**  
nSchaus, P.U.S.N.M. 73; 19, 21-22, 1928.  
Trunk borer, *see* *Melanogaster chinensis*
- Trypaneoides major*  
nMalloch, P.U.S.N.M. 74; 6, 25, 1929.
- Trypanidius insularis*  
nFisher, Amer. Mus. Nov. 174, 8-9, '25.
- Trypeta florecentiae*  
iDetmers, Ohio B. 414, 26-29, 1927.
- Trypeta ludens*, *see* *Anastrepha ludens*
- Trypetomina completa* 173, *formosina* 172, *solitaria* 172  
nCresson, Tr. Amer. Ent. Soc. 55, 1929.
- Trypactothrips brevipilus*, *lineatus*  
nWildier, Psyche 34, 242-245, 1927.
- Tryptherus latipennis*  
Fletcher, Can. Ent. 61, 258, 1929.
- Trypodendron bivittatum*  
Peirson, Me. For. Serv. B. 5, 120, 1927.
- Trypoxylon albitarse*  
Osborne, Conn. B. 305, 751-753, 1929.
- Trypoxylon albopilosom*  
Rau, St. Louis Acad. Sci. Tr. 25, 199, '27.  
Rau, St. Louis Acad. Sci. Tr. 25, 423-428, 1928.
- Trypoxylon clavatum*  
Rau, St. Louis Acad. Sci. Tr. 25, 198-199, 1927.  
Rau, St. Louis Acad. Sci. Tr. 25; 406-423, 1928.
- Trypoxylon plesium*  
Rau, St. Louis Acad. Sci. Tr. 25, 197, '27.  
Rau, St. Louis Acad. Sci. Tr. 25, 439-441, 1928.

- Trypoxylon politum** (Pipe-organ wasp)  
 Rau, St. Louis Acad. Sci. Tr. 25, 187, '27.  
 Rau, St. Louis Acad. Sci. Tr. 25, 428-439, 1928.
- Trypoxylon texense**  
 Rau, St. Louis Acad. Sci. Tr. 25, 441-442, 1928.
- Tsetse flies**  
 iChandler, Animal Parasites, ed. 3, 490-504, 1925.  
 Felt, N. Y. St. Mus. B. 274, 49-50, 1928.  
 Phillips, Ecol. 10: 359-360, 1929.  
 ———J. Amer. Med. Soc. 86, 48-49, '26.  
 ———Nation's Health 7; 6, 432, 1925.  
 ———Science Suppl. 65; 1681, x-xii, 1927.  
 ———Science 67, 263, 1928.  
 i——Scientific American, 132, 402-406, 1925.
- Tucumania**, n. gen., *porrecta*, *tapiacola*  
 Dyar, Ins. Insc. Mens. 13, 224-225, '25.
- Tularaemia**  
 iFrancis, U. S. Pub. H. R. 42, 2763-2772, 1927.  
 Green, J. Am. Med. Assoc. 93, 1920-23, 1929.  
 bParker & Dade, Amer. Vet. Med. Assoc. J. 75: 173-191, 1929.  
 ibSimpson, Tularaemia; 1929, 162 p.
- Tularemia**—Review of literature  
 Kerlin, New Orleans Med. Surg. Jour. 81, 723-726, 1929.
- Tulip aphid**, *see* **Anuraphis tulipae**
- Tulip tree scale**, *see* **Toumeyella liriodendri**
- Tunga penetrans** (Chigoe)\*  
 Bequaert, Harvard Inst. Trop. Biol. & Med. Cont. 4, 246-247, 1926.  
 iChandler, Animal Parasites ed. 3, 418, 1925.  
 Dunn, Amer. Jr. Trop. Med. 9, 504-505, 1929.  
 Felt, N. Y. St. Mus. B. 274, 41-47, '28.  
 Fernald, Applied Ent. ed. 2, 339, 1926.  
 \*Turkey gnat, *see* **Simulium meridionale**
- Turkey louse** (Large), *see* **Goniodes styliifer**
- Turkey louse** (Slender), *see* **Lipeurus gallipavonis**
- Turnaca bryantia**, *panteana*, *suriga*  
 nSchaus, P.U.S.N.M. 73; 19, 88-89, '28.
- \***Turnip aphid**, *see* **Rhopalosiphum pseudobrassicae**
- Turpentine borer**, *see* **Buprestis apicans**
- \***Twig girdler**, *see* **Oncideres cingulatus**
- \***Two-lined chestnut borer**, *see* **Agrilus bilineatus**
- Two-lined prominent**, *see* **Heterocampa bilineata**
- Two-spotted curculio**, *see* **Attelabus bipustulatus**
- \***Two-spotted ladybeetle**, *see* **Adalia bipunctata**
- \***Two-striped grasshopper**, *see* **Melanoplus bivittatus**
- \***Two-striped walkingstick**, *see* **Anisomorpha buprestoides**
- Tychius picirostris** (Clover head weevil)  
 Petch & Armstrong, Quebec Soc. Protec. Plants R. 17, 73, 1925.
- Tydeus molestus**  
 Chandler, Animal Parasites ed. 3, 341, 1925.
- Tylenchus angustus**  
 ———Cal. Dept. Agr. Mo. B. 18, 635, '29.
- Tylenchus balsamophilus**  
 iThorne, J. Parasitol. 12, 141-145, 1927.
- Tylenchus brachyurus**  
 niC.H.G., Pineapple News 3, 49-59, 1929.  
 Godfrey, Pineapple News 3, 23-26, '28.  
 Godfrey, Phytopathology 19, 611-629, 1929.
- Tylenchus dipsaci** (Alfalfa eel-worm)  
 Doucette, Florists' Exch. 62; 377, 1926.  
 Gillette, Colo. Ent. C. 47, 58-60, 1925.  
 Locklin & Newton, West. Wash. B. 13, W. n.s. 3, 1929.  
 McDaniel, Mich. Spec. B. 173, 19-20, '28.  
 iMcKay, Oreg. St. Bd. Hort. Bien. R. 19, 159-168, 1927.  
 iMilbrath, Cal. Agr. B. 14, 182-187, '26.  
 Park, Oreg. St. Bd. Hort. Bien. R. 19, 53-55, 1927.  
 Pitter, Wis. Hort. 17; 12, 21, 1926.  
 Sabine, Flor. Exch. 62, 1084, 1926.  
 iScott, Phytopathology 14, 495-502, N. 1924.  
 iThorne, Colo. Ent. C. 47, 61-70, 1925.  
 ———Flor. Exch. 62, 575, 1926.

- Tylenchus sacchari**  
Matz, Facts about Sugar 20, 1193-1194, 1925.
- Tylenchus similis**  
Cassidy & VanZwaluwenburg, Assoc. Hawaiian Sugar Tech. R.6, 11-15, '27.  
Muir, Assoc. Hawaiian Sugar Tech. R. 5, 16, 1926.  
Stewart, Assoc. Hawaiian Sugar Tech. R. 6, 17-21, 1927.
- Tylenchus tritici**  
iLeukel, U.S.F.B. 1607; N. 1929, 12 p.
- Tylobolus utahensis**  
Chamberlin, Pan-Pac. Ent. 2, 60-61, '25.
- Tyloderma fragariae** (Strawberry crown borer)\*  
Dean, Kan. Ent. Com. Bien. R. 10, 33, 1927.  
Forbes, Ill. Nat. Hist. Surv. B. 16, 450, 1927.  
iHaseman & Sullivan, Mo. B. 246, 1-8, '27.  
Haseman, Sullivan & Davis, Mo. B. 236, 51, 1926.  
iMarcovitch, Tenn. Ext. Pub. 102, 1926.  
Scholl & Stephens, Tex. Dept. Agr. B. 84, 15-16, 1925.
- Tylois barberi**  
nMann, Psyche 32, 176-177, 1925.
- Tylonotus bimaculatus**  
Peirson, Me. For. Serv. B. 5, 30, 1927.
- Typhlocyba andromache** 32, *antigone* 35-36, *ariadne* 14-15, *ariste* 13, *arsinoe* 31-32, *athene* 31, *berenice* 38  
nMcAtee, P.U.S.N.M. 68, Art. 18, 1926.
- Typhlocyba comes**, *see* **Erythroneura comes**  
iGentner, Mich. Sp. B. 148, 13-15, 1925.  
Jungerman, Cal. Cult. 64, 591, 1925.
- Typhlocyba clymene** 36-37, *danae* 37, *duplicata* 16-17, *euphrante* 12-13, *eurydice* 37-38, *hermione* 38-39, *lancifer* 19-20, *melite* 32, *nicarete* 36, *niobe* 18-20, *persephone* 11, *phryne* 34-35, *piscator* 7  
nMcAtee, P.U.S.N.M. 68, Art. 18, 1926.
- Typhlocyba pomaria**  
iLathrop, J. Ec. Ent. 20, 577-581, 1927.  
nMcAtee, P.U.S.N.M. 68, Art. 18, 29-31, 1926.
- Ross & Caesar, Ont. Ent. Soc. R. 59, 19, 1929.
- Typhlocyba rosae**, *see* **Empoa rosae**
- Typhlocyba spp.**—Revision of American biMcAtee, P.U.S.N.M. 68, Art. 18, 1926, 45 p.
- Typhlocyba sp.**—vs. **Eupteryx sp.**  
Van Duzee, Pan-Pac. Ent. 3: 1, 45-46, 1926.
- Typhlocyba tricineta**  
iGentner, Mich. Sp. B. 148, 13-15, 1925.
- Typhlocyba unca**  
nMcAtee, P.U.S.N.M. 68, Art. 18, 8, '26.
- Typhlocyba xanthippe**  
Cutright, Ohio B. 431, 74, 1929.  
nMcAtee, P.U.S.N.M. 68, Art. 18, 14, '26.
- Typhlocybella minima**  
Osborn, Porto Rico Dept. Agr. J. 13, 106, 1929.
- Typhlocybella minissima**  
McAtee, J.N.Y. Ent. Soc. 34, 164, 1926.
- Typocerus brunnicornis**  
Blatchley, Can. Ent. 57, 166, 1925.
- Typocerus deceptus**  
nKnull, Ent. News 40, 144, 1929.
- Typophorus canellus**, *see* **Paria canella**
- Typophorus viridicyaneus** (Sweet-potato leaf beetle)  
Chittenden, Brooklyn Ent. Soc. B. 20, 91, 1925.
- Typopsilopa chinensis, tonga**  
nCresson, Tr. Amer. Ent. Soc. 55, 194-195, 1920.
- Typus gilmorei**  
niPrice, P.U.S.N.M. 71, Art. 23, 3-4, '28.
- Typus whitei**  
niCarpenter, Psyche 186-190, 1928.
- Tyrellia circularis**  
Miller, Ohio B. 386, 124, 1925.
- Tyroglyphus lintneri**  
Caesar, Ont. Ent. Soc. R. 57, 17-18, '27.  
Miller, Ohio B. 386, 152-153, 1925.  
iPopenoe, U.S.F.B. 789, Rev. J1 '25 24.
- Tyroglyphus longior**  
iChandler, Animal Parasites, ed. 3, 339, 1925.
- Tyroglyphus longisetosus**  
—J. Ec. Ent. 18, 437, 1925.
- Tyroglyphus siro**  
Miller, Ohio B. 386, 153, 1925.



**Tyroglyphus spp.**

- Back & Cotton, U.S.F.B. 1260; rev.  
Dec. 1925, 42.  
iGibson & Twinn, Can. Dept. Agr. B.  
112, 70, 1929.

**Ucayalimyia antlerata**

- Townsend, J.N.Y. Ent. Soc. 36, 85, '28.

**Uclesia varicornis, zonalis**

- nCurran, Can. Ent. 59, 299-300, 1927.

**Ufeus niger**

- Earle, Facts About Sugar 22, 969, '27.

**\*Ugly-nest caterpillar, see Cacoecia cerasivorana****Uhleriola floralis**

- Daniels, Ent. News 40, 179, 1929.

**Ulida compta**

- Cole, J. Ent. & Zool. 17, 58, 1925.

**Ulmeriella bauckhorni**

- niCockerell & Snyder, Proc. Biol. Soc.  
Wash. 38, 21, 1925.

**Uloborus americanus**

- Weese, Ill. Biol. Mon. 9; 4, 17-18, 1924.

**Ulochaetes leoninus**

- Hardy & Preece, Pan-Pacific Ent. 3:  
1, 36-37, 1926.

**Ulomorpha aridela**

- niAlexander, Proc. U. S. Nat. Mus. 72;  
2, 15-16, 1928.

**Ulomorpha rogersella**

- Alexander, Ent. News 40, 48-49, 1929.

**Ultra violet rays and queen bees**

- Muth, Tenn. St. Hort. Soc. Proc. 24,  
120-126, 1929.

**Umbrella or parasol ant, see Atta cephalotes****Underwoodia hespera, tida**

- nChamberlin, Pan-Pacific Ent. 2, 63, '25.

**\*Unicorn caterpillar, see Schizura unicornis****U. S. Federal Hort. Board and nurserymen**

- Wyman, National Nurseryman 33, 202-  
204, 1925.

**Unoka n. gen., ornata**

- niLawson, Ann. Ent. Soc. Amer. 21: 449-  
459, 1928.

**Upholstery beetle, see Anthrenus fasciatus****Upis ceramoides**

- Fletcher, Can. Ent. 61, 259, 1929.  
Gibson & Twinn, Can. Dept. Agr. B.  
112, 67, 1929.

**Urania sloanei—"Blue moth"—wind drift**

- Felt, N. Y. St. Mus. B. 274, 95, 1928.

**Uranotaenia gen.**

- Freeborn, Cal. Univ. Tech. B. Ent. 3,  
348, 1926.

**Uranotaenia anhydor**

- Freeborn, Cal. Univ. Pub. Ent. Tech.  
B. 3, 349-351, 1929.

**Uranotaenia briseis**

- nDyar, Ins. Insc. Mens. 13, 216, 1925.

**Uranotaenia clara**

- nDyar & Shannon, Ins. Insc. Mens. 13,  
68-69, 1925.

**Uranotaenia innotata**

- nDyar & Shannon, Ins. Insc. Mens. 13,  
69-70, 1925.

**Uranotaenia ludlowae**

- nDyar & Shannon, Ins. Insc. Mens. 13,  
68, 1925.

**Uranotaenia spp.**

- Dyar, Ins. Insc. Mes. 13, 182, 1925.  
Freeborn, Cal. Univ. Pub. Ent. B. 3,  
348, 1929.

**Uranotes mellinus (Cottonsquare dauber)**

- Watson, Fla. Dept. Agr. Quar. B. 39;  
3, 112, 1929.

**Urbanus scriptura**

- Comstock, S. Cal. Acad. Sci. B. 28, 26,  
1929.

**Urbanus tessellata**

- nGunder, Ent. News 38, 51-52, 1927.

**Urgedra nabora**

- nSchaus, P.U.S.N.M. 73; 19, 17-18, 1928.

**Urodera crucifera**

- Brisley, Trans. Amer. Ent. Soc. 51,  
168, 1925.

**Uroplitella circularis, pennsylvanica**

- Miller, Ohio B. 386, 138-139, 1925.

**Uropoda folsomi**

- Miller, Ohio B. 386, 138, 1925.

**Uropoda illinoisensis**

- Miller, Ohio B. 386, 138, 1925.

**Urosigalphus euleochriops**

- nCushman, Proc. Ent. Soc. Wash. 28,  
63, 1926.

- Urothemis abbotti**  
niLaidlaw, P.U.S.N.M. 70; 17, 1-3, 1927.
- Urothripodea—Key to genera**  
iHood & Williams, Ann. Ent. Soc. Amer. 20, 3-8, 1927.
- Ursophyto n. gen., rufigena**  
nAldrich, P.U.S.N.M. 69, Art. 22, 14,'26.
- Usechimorpha n. gen., barberi**  
Blaisdell, P.U.S.N.M. 75, Art. 19, 9, 11-13, 1929.
- Usechini—revision**  
iBlaisdell, P.U.S.N.M. 75: 19, 1929. 14 p.
- Usechus lacerta, nucleatus**  
Blaisdell, P.U.S.N.M. 75; Art. 19, 3-6, 7-9, 1929.
- Vaehovis yosemitensis**  
nbEwing, P.U.S.N.M. 73; 9, 11, 1928.
- \*Vagabond crambus. see Crambus vulgi-vagellus**
- Vagabond gall, see Mordwilkoja vagabunda**
- Vahlkampfia mellifica**  
J. Ec. Ent. 10, 809, 1926.
- Valdivia n. gen. 31, nigra 32, darwini 32, ruficauda 32-33**  
nShannon, P.U.S.N.M. 70; 9, 1927.
- Vanduzee testudinea**  
niHaviland-Brindley, Zoologica, N.Y. 6, 251, 1925.
- Vanduzeeina borealis, californica.**  
nVan Duzee, Proc. Cal. Acad. Sci. ser. 4, 14; 17, 392-393, 1925.
- Vanessa antiopa**  
ibMinnich, J. Expt. Zool. 42, 443-469,'25.  
iMd. Acad. Sci. Quar. B. 6; 2, 27, 1927.
- Vanessa atalanta (Red admiral)\***  
Felt, N. Y. St. Mus. B. 274, 104-105,'28.
- Vanessa cardui (Painted lady)\***  
Clark, Psyche 33, 3, 1926.  
Essig, Pan-Pacific Ent. 2, 211-212, '26.  
Jacobsen, Calif. Dept. Agr. Mo. B. 15; 131, 1926.  
Pettit, Mich. St. Bd. Agr. R. 63, 213,'24.  
Ruggles, Farmer, 44; 29, 3, 1926.  
Russell, Morrison & Ebling, Wis. B. 388, 72-73, 1926.
- Vanessa carye—Food plants**  
Coolidge, Brooklyn Ent. Soc. B. 20, 146-147, 1925.
- Vanessa virginiensis (Painted beauty)\***  
Gunder, Ent. News 36, 198, 1925.
- Variable currant aphid, see Aphis varians**
- Variable peach aphid, see Myzus varians**
- Varied carpet beetle, see Anthrenus verbasci**
- \*Variegated cutworm, see Lycophotia margaritosa**
- Vegetable insects**  
Beaulne, Quebec Soc. Protec. Pl. R. 66-70, 1927.  
Britton, Conn. Veg. Grow. Assoc. R. f. 1927, 66-70.  
Britton, Conn. B. 285, 170-173, 1927.  
Britton, Conn. Veg. Gr. R. f. '27, 66-70.  
Britton, Conn. B. 294, 201-204, 1928.  
Britton, Conn. B. 305, 677-679, 1929.  
Burdette, N.J.R. 50, 180-187, 1929.  
iCaesar, Ont. Dept. Agr. B. 325, 1927, 63 p.  
Caesar & Ross, Ont. Ent. Soc. R. 58, 23-24, 1928.  
Call, Kans. R. f. 1924-26, 76-77.  
iCardinell, et al, Mich. Ext. B. 60, '28, 8 p.  
Chupp, Cornell Ext. B. 171, 18-19, '28.  
Compton, Trans. Ill. Hort. Soc. 61, 326-332, 1927.  
Davis, Ind. Acad. Sci. Proc. 35, 308, '26.  
Davis, Ind. Acad. Sci. Proc. 43, 451-453, 1928.  
Headlee, N.J. St. Hort. Soc. Proc. 1925, 120-123.  
iHeadlee, N. J. C. 178, 1925, 30 p.  
Headlee, N. J. Hort. Soc. Proc. 1926, 26-34, 1926.  
Headlee, N. J. R. 49: 163-164, 1928.  
iHerrick, Rur. N. Y. 85, 421, 1926.  
Lipman, N. J. R. 49: 41, 1928.  
Lovett, Oreg. Bd. Hort. R. '23, 102-104.  
MacLeod, Penn. St. Ext. C.122,3-31,'29.  
Morrill, J. Ec. Ent. 19, 695-699, 1926.  
Mote, Oreg. St. Hort. Soc. R. 18, 54-60, 1926.  
Newman, S. C. Ext. B. 72, 24-26, 1926.  
Page, Neb. Bd. Agr. R. f. 1927, 373-380, 1927.  
Passmore, Wash. Ext. Serv. News 11; 1, 1925.  
Quinn & Talbert, Mo. C. 167, 6-7, 1928.

**Vegetable Insects** *Cont'd*

Va. Poly. Ext. Div. News 12: 3, 5, '30.  
iWilkinson, Conn. Ext. B.114,1927,31 p.

\*Vegetable weevil, *see* *Listroderes obliquus*

**Velia beameri**

nHungerford, Ann. Ent. Soc. Amer. 22,  
759-761, 1929.

**Velia spp.**

niHungerford, Kans. Ent. Soc. J. 2, 50-  
56, 1929.

niHungerford, Jour. Kans. Ent. Soc. 3;  
1, 23-26, 1930.

**Velia watsoni**

Bueno, Brooklyn Ent. Soc. B. 20,185,'25.  
Hoffman, Can. Ent. 57, 107-112, 1925.

Velvetbean caterpillar, *see* *Anticarsia gemmatilis*

**Venadicodia ruthaea**

nDyar, J. Wash. Acad. Sci. 17, 550, '27.

**Venemina opacaria**

Casino, Lepidopterist 4, 95-96, 1928.

Verbena budmoth, *see* *Olethreutes hebesana*

**Vermin infestation and delousing**

biPlotz, Med. Dept. U. S. Army World  
War 6, 372-413, 1926.

**Vespa crabro** (Giant hornet)

iFelt, Tree Talk 8: 1, 11-12, 1926.

Felt, J. Ec. Ent. 20, 66, 1927.

Felt, N. Y. St. Mus. B. 274,159-160,'28.

Metz, Sci. 63, 190-191, 1926.

Savin, Nat. Hist. 25, 81-a, 1926.

Rur. N. Y. 87, 1281, 1928.

**Vespa maculata**, *see* **Vespula maculata**

**Vespa species**

Rohwer, Proc. Ent. Soc. Wash. 28, 93-  
94, 1926.

iSavin, Nat. Hist. 25, 81-86, 1925.

**Vespa vulgaris**

Anderson, Ent. Soc. B. C. Proc. 21, 12-  
15, 1924.

**Vespamima sequoiae** (Sequoia pitch  
moth)

iKeen, Cal. Dept. Nat. Resources B. 7,  
80-81, 1928.

iThompson, Oreg. St. Bd. Hort. Bien.  
R. 19, 132-133, 1927.

**Vespidae—Stylopization**

Salt & Bequaert, Psyche 36, 249-282,'29.

**Vespula apropilosa**

Essig, Pac. Coast Ent. Soc. Proc. 2:  
120, 1928-29.

**Vespula carolina**

Yothers, J. Ec. Ent. 18, 368, 1925.

**Vespula diabolica**

Parker, J. Wash. Acad. Sci. 17,181,'27.

**Vespula germanica—Sting**

Ewing, Am. J. Pharm. 100, 540, 1928.

Ewing, Amer. J. Trop. Med. 8, 60, '28.

**Vespula maculata** (White-faced hornet,  
Bald-faced hornet)\*

Aaron, Nature Mag. 14, 283, 1929.

Ewing, Am. J. Trop. Med. 8, 60-61, '28.

iFelt, N. Y. St. Mus. B. 274, 13, 1928.

Fernald, Applied Ent. ed. 2, 360, 1926.

Parker, Proc. Ent. Soc. Wash. 30,14,'28.

iRau, Anns. Ent. Soc. Amer. 22, 659-  
675, 1929.

Rau, Can. Ent. 61: 219-221, 1929.

Nature Mag. 8: 1, plate, 1926.

**Vespula maculifrons**

Rohwer, Proc. Ent. Soc. Wash.28,94,'26.

**Vetch—Insects**

iSchoth & Hyslop, Oreg. B. 213, 25-29,  
1925.

\*Viceroy, *see* *Basilarchia disippus*

**Villa compressus** 211-212, concessor 210,

faunus 211, flavocostalis 210, later-

alis 206-210, mucorea 210, muscaria

211, salebrosus 211, shawii 212

nPainter, Ohio J. Sci. 26, 1926.

Vine weevil, *see* *Brachyrhinus sulcatus*

Violet sawfly, *see* *Emphytus canadensis*

Virginia tiger moth, *see* *Spilosoma vir-*  
*ginica*

**Visayalydina**, n. gen., sierricola

Townsend, Ins. Insc. Mens.14,31-32,'26.

**Vitula edmandsii**

Frison, Ann. Ent. Soc. Amer. 19, 226-  
227, 1926.

**Vitula saissetiae**

nDyar, Proc. Wash. Ent. Soc. 31, 16-17,  
1929.

**Vitula serratilineella** (Dried apple fruit  
worm)

Hamlin & Reed, J. Ec. Ent. 20, 840, '27.

**Viviania aureofasciata**

Curran, Amer. Mus. Nov. 258, 8-9, '27.

- Volucella abdominalis**  
Curran, Ann. Ent. Soc. Amer. 19, 64-65, 1926.
- Volucella barei**  
nCurran, Can. Ent. 57, 255-256, 1925.
- Volucella bombylans**—Color  
ibGabritschewsky, Biol. B. 51, 269-280, '26.  
Johnson, Psyche 32, 114-117, 1925.  
Keeler, Psyche 33; 1, 22-27, 1926.
- Volucella chalybescens**  
Curran, Ann. Ent. Soc. Amer. 19, 59, '26.
- Volucella cockerelli** 85-86, correcta 87-88  
nCurran, Brklyn. Ent. Soc. B. 22, 1927.
- Volucella discalis** 57-58, *dorsalis* 61-62, *ernesta* 55-56  
nCurran, Ann. Ent. Soc. Amer. 19, 1926.
- Volucella escomeli**  
nCurran, Ann. Ent. Soc. Amer. 22, 489-490, 1929.
- Volucella fracta** 58, *imitans* 63, *lugens* 65-66, *macquarti* 60-61, *macula* 62  
Curran, Ann. Ent. Soc. Amer. 19, 1926.
- Volucella mustoides**  
nCurran, Bklyn. Ent. Soc. B. 22, 84-85, 1927.
- Volucella nigropictoides**  
nCurran, Amer. Mus. Novit. 200, 2-3, '25.
- Volucella pallens** 56, *picta* 62, spp. 50-66, *spinigera* 59-60, *timberlakei* 63, *tympanitis* 56, *unipunctata* 63-64, *vaga* 57  
Curran, Ann. Ent. Soc. Amer. 19, 1926.
- Volucella vagoides**  
nCurran, Bklyn. Ent. Soc. B. 22, 86-87, '27.
- Vosleria**—n. gen., *signata*  
Timberlake, P.U.S.N.M. 69, Art. 3, 1-5, 1926.
- Vostox cabreræ**  
inRehn, Trans. Amer. Ent. Soc. 51, 20-25, 1925.
- Vulsinia**—n. gen., *socorra*  
nSchaus, Proc. Ent. Soc. Wash. 30, 54-55, 1928.
- \***W**-marked cutworm, *see* *Agrotis unicolor*
- Wagneria cornuta, distincta, major**  
nCurran, Can. Ent. 60, 48-49, 1928.
- Wagneria vernata**  
nWest, J.N.Y. Ent. Soc. 33, 127-128, '25.
- \***Walkingstick**, *see* *Diapheromera femorata*
- Walnut aphid**, *see* *Chromaphis juglandicola*
- Walnut blister mite**, *see* *Eriophyes striatus*
- \***Walnut case bearer**, *see* *Mineola juglandis*
- Walnut caterpillar**, *see* *Datana integerima*
- Walnut codling moth**, *see* *Carpocapsa pomonella*
- Walnut curculio**, *see* *Conotrachelus juglandis*
- \***Walnut husk fly**, *see* *Rhagoletis juglandis*
- Walnut husk, maggot**, *see* *Rhagoletis suavis*
- Walnut insects**  
Wright, Cal. Dept. Agr. Mo. B. 18, 278-282, 1929.  
——Cal. Cult. 72, 386, 1929.
- \***Walnut scale**, *see* *Aspidiotus juglans-regiæ*
- \***Walnut sphinx**, *see* *Cressonia juglandis*
- War gas for insects**  
Killeffer, Scientific Amer. 134, 168, '26.
- Warble flies**, *see* *Hypoderma* spp.
- Wasmannina**, n. gen.  
Mann, J. Wash. Acad. Sci. 15, 75, 1925.
- Wasmannina auropunctata**  
Smith, J. Ec. Ent. 22, 241-243, 1929.  
Wheeler, Psyche 36, 89-90, 1929.
- Wasmannina trapezicollis**  
nMann, J. Wash. Acad. Sci. 15, 75, '25.
- Wasps**  
Davis, Bklyn. Ent. Soc. B. 21, 127, '26.  
Gibson & Twinn, Can. Dept. Agr. B. 112, 21, 1929.  
Lubbock, Ants, Bees & Wasps, 1929, 377 p.  
Reichard, St. N. 53, 1166, Oct. 1926.  
Reinhard, Nat. Mag. 10, 99-102, Aug. '27.  
Stevens, Amer. Bee. J. 68, 608, 1928.
- Wasps**—Climate and coloration  
Fernald, Ann. Ent. Soc. Amer. 19, 88-92, 1926.

**Wasps—Non-social**

Rau, Trans. Acad. Sci. St. Louis, 25;  
9, 325-489, 1928.

**Wasps—Parasitic**

Muesbeck, P.U.S.N.M. 69, 16, 1927, 73 p.

**Wasps—Social**

iSavin, Nat. History 25, 81-86, 1925.

**Wasps and Mice**

Cawthon, Flower Grow. 16, 440, 1929.

**Wasps and X-Ray**

Whiting, J. Heredity 20, 267-276, 1929.

**Wasps vs. cicadas**

iChamplain, Nat. Mag. 14, 176, S. '29.

**Water-bearing plants and mosquitoes**

Dyar, Proc. Ent. Soc. Wash. 30, 110-112, 1928.

**Water beetles—On auto top**

Duncan, Bklyn. Ent. Soc. B. 22, 143, '27.

**Water-cress leaf beetle, *see* *Phaedon aeruginosus*****\*Water-cress sowbug, *see* *Mancasellus brachyurus*****Water-lily aphid, *see* *Rhopalosiphum nymphaeae*****Water-lily caterpillar, *see* *Nymphula obscuralis*****Wavy spruce borer, *see* *Xylotrechus undulatus*****Wavy-striped flea beetle, *see* *Phyllotreta sinuata*****Waxmoth, *see* *Galleria mellonella*****Wax or white scale (Florida scale)\*, *see* *Ceroplastes floridensis*****Weather and insects**

ibCook, Mo. Weather Rev. 56, 103-106, '28.

Linfield, Mont. Rept. 34, 93, 1927.

ibTehon, Ill. Nat. Hist. Surv. B. 17, 321-346, 1928.

**Weather and insects—*Anthonomus grandis***

iKincer, Mo. Weather Rev. 56, 301-304, 1928.

**\*Webbing clothes moth, *see* *Tineola bisselliella*****Webworms**

Reppert, Tex. Ent. Serv. Farm. News 11; 18, 1, 1926.

**Weevils**

Herrick, Rur. N. Y. 84, 1432, 1925.

MacLeod, Penn. St. Ext. C. 122, 19-20, 1929.

Reppert, Farm & Ranch, 45; 51, 10, '25.

**West Indian cane fly, *see* *Stenocranus saccharivorus*****\*West Indian cane weevil, *see* *Metamasius hemipterus*****\*West Indian fruit fly, *see* *Anastrepha fraterculus*****West Indian peach scale, *see* *Aulacaspis pentagona*****West Indian rufus scale, *see* *Pseudonidia (Selanaspidius) articulatus*****West Indian shot hole borer, *see* *Xyleborus perforans*****Western bunch-gill, *see* *Siphonurus occidentalis*****Western cedar bark borer, *see* *Semanotus amethystinus*****\*Western cedar pole borer, *see* *Trachykele blondeli*****Western currant aphid, *see* *Myzus ribis-folii*****Western drummer, *see* *Acroneuria pacifica*****Western garden flea beetle, *see* *Phyllotreta pusilla*****Western grape leaf skeletonizer, *see* *Harrisina brillans*****\*Western grape root worm, *see* *Adoxus obscurus*****Western grass-stem sawfly, *see* *Cephus cinctus*****\*Western peach borer, *see* *Aegeria opal-escens*****\*Western pine beetle, *see* *Dendroctonus brevicomis*****Western potato flea beetle, *see* *Epitrix subscrita*****\*Western spotted cucumber beetle, *see* *Diabrotica soror*****\*Western striped cucumber beetle, *see* *Diabrotica trivittata*****\*Western tent caterpillar, *see* *Malacosoma pluvialis*****Western tree cricket, *see* *Oecanthus californicus***

- \*Western tussock moth, *see* *Hemerocampa vetusta*
- Western willow leaf beetle, *see* *Galerucella decora*
- \*Wheat head armyworm, *see* *Neleucania albilinea*
- Wheat insects  
 Call, Kans. R. f. 1926-28, 69-71.  
 Curtiss, Iowa Agr. R. f. 1927, 36.  
 Curtiss, Iowa R. f. 1928, 33.  
 Davis, Ind. C. 82, 1928, 11 p.  
 Gorham, Sci. Agr. 7, 287-289, 1927.  
 Reed, Iowa R. f. 1924, 43-44, 1925.  
 Rockwood, Columbia Port Digest 4: 3, 10-11, 1926.  
 Webster, N. D. C. 25, 1925, 20 p.
- \*Wheat joint worm, *see* *Isosoma tritici*
- \*Wheat midge, *see* *Thecodiplosis mosellana*
- \*Wheat-sheath joint worm, *see* *Isosoma vaginiculum*
- \*Wheat stem maggot, *see* *Meromyza americana*
- \*Wheat stem sawfly, *see* *Cephus cinctus*
- \*Wheat straw worm, *see* *Isosoma grandis*
- \*Wheat wireworm, *see* *Agriotes mancus*
- \*Wheel bug, *see* *Arilus cristatus*
- White ants, *see* *Termites*
- White borer, *see* *Scirpophaga auriflua*
- White blotch oak leaf miner, *see* *Lithocolletis hamadryadella*
- White faced hornet, *see* *Vespula maculata*
- White fly (in Utah), *see* *Eutettix tenella*
- White grubs, *see* *Phyllophaga* spp.
- \*White-lined sphinx, *see* *Celerio lineata*
- \*White-marked spider beetle, *see* *Ptinus fur*
- \*White-marked tussock moth, *see* *Hemerocampa leucostigma*
- \*White peach scale, *see* *Aulacaspis pentagona*
- White pine aphid, *see* *Lachnus strobi*
- White pine insects  
 Middleton, U. S. Golf. Assoc. Green Sec. B. 4: 6, 148-150, 1924.
- \*White pine weevil, *see* *Pissodes strobi*
- Wild-cucumber root-borer, *see* *Melittia gloriosa*
- Wild life—Insect protection  
 Bishopp, Amer. Fur. Grow. Mag. 4: 4, 20-21, 1929.
- Williamsiana ferruginosa  
 niGoding, Trans. Amer. Ent. Soc. 52, 103-104, 1926.
- Williamsiella bicoloripes  
 nHood, Psyche, 32, 60-61, 1925.
- Willow cone gall, *see* *Rhabdophaga strobiloides*
- Willow curculio, *see* *Cryptorhynchus lapathi*
- Willow gall borer, *see* *Saperda moesta*
- Willow grove aphid, *see* *Melanoxanthium smithae*
- Willow insects  
 ibHuckett, Bklyn. Ent. Soc. B. 23, 70-83, 1928.  
 Peirson, Me. For. Serv. B. 5, 124-125, 1927.  
 iWis. B. 405, 121, 1929.
- Willow leaf beetle, *see* *Galerucella decora*
- Willow snout beetle, *see* *Orchestes rufipes*
- Wind and insect flight  
 Lutz, Amer. Mus. Nov. 291, 1-4, 1928.
- Window garden insects  
 iBade, House Beaut. 60, 604, Nov. 1926.
- Wing louse, *see* *Lipeurus variabilis*
- Wings of insects  
 Crampton, Bklyn. Ent. Soc. B. 23, 113-118, 1928.
- Winter insects  
 Torre-Bueno, Bklyn. Ent. Soc. B. 20, 70, 1925.
- Winthemia quadripustulata  
 ibAllen, Miss. Tech. B. 12, 1926, 38 p.  
 ibHefley, J. Ec. Ent. 21, 213-221, 1928.  
 iLuginbill, U.S.D.A. Tech. B. 34, 78, '28.
- Winthemia sexualis  
 nCurran, Amer. Mus. Nov. 260, 7-8, '27.
- Wireworms  
 Beckwith & Fudge, N. J. R. 50, 193-195, 1929.  
 Bonnet, Cal. Grape Grow. 9: 1, 5, 1928.  
 iBritton, Conn. B. 275, 312-314, 1926.

**Wireworms** *Cont'd*

- iBritton & Anderson, Conn. Tobacco Expt. Sta. B. 6, 74T-81T.  
 Campbell, J. Ec. Ent. 19, 636-642, 1926.  
 Campbell, Cal. Cult. 68, 654, 1927.  
 iCompton, Ill. C. 297, 19, 1925.  
 Essig, Cal. B. 411, 17, 1926.  
 iGibson & Twinn, Can. Dept. Agr. B. 112, 63, 1929.  
 Glasgow, N. Y. Gen. C. 100, 6, 1927.  
 H. G. N., Cal. Cult. 65, 380, 1925.  
 iHawkins, Me. B. 343, 1928, 20 p.  
 Headlee, N. J. R. f. 1924, 306, 1925.  
 Headlee, N. J. St. Hort. Soc. Proc. f. 1925, 122-123.  
 Headlee, N. J. Hort. Soc. Proc. f. 1926, 27-28.  
 Herrick, Rur. N. Y. 86, 1357, 1927.  
 Horsfall & Thomas, J. Ec. Ent. 19, 181-185, 1926.  
 iKing, Sci. Agr. 8, 693-706, 1928.  
 King & Arnason, Country Guide 22; 22, 14-15, 1929.  
 Lipman, N. J. R. 47, 19, 1927.  
 McColloch et al, J. Ec. Ent. 20, 561-564, 1927.  
 MacLeod, Penn. St. Col. Ext. C. 122, 17-18, 1929.  
 iMail, Minn. Ext. C. 29, 1928, 4 p.  
 iMoore & Pepper, S. C. Ext. C.84.12.26.  
 Mote, Oreg. C. 65, 36-38, 1926.  
 iMunro, N. D. B. 217, 80, 1928.  
 Parks, Flor. Exch. 62, 709, 1926.  
 Ruhmann, B. C. Dept. Agr. R. 22, Q38-Q40, 1928.  
 Spuler, Wash. St. Hort. Assoc. Proc. 21, 57-60, 1927.  
 Stahl & Scaramuzza, Trop. Plt. Res. Found. B. 10, 9-15, 1929.  
 Strickland, Alberta Univ. Coll. Agr. B. 2, 1927, 18 p.  
 Thomas, Pa. St. Col. B. 204, 37-38, '26.  
 Thomas, Pa. B. 230, 41, 1928.  
 Thomas, Pa. St. Col. B. 243, 29-30, '29.

**Wireworms—Parasites**

- ibThomas, Ent. News 40; 287-293.

**Wireworms—Rearing**

- bBryson, Kans. Ent. Soc. J. 2, 15-21, '29.

**Wohlfahrtia atra**

- nAldrich, P.U.S.N.M. 69, Art. 22, 10-11, 1926.

**Wohlfahrtia magnifica in human eye**

- Felt, N. Y. St. Mus. B. 260, 38, 50, '25.

**Wohlfahrtia vigil**

- ibDove, South. Med. J. 18, 406-411, 1925.  
 Felt, N. Y. St. Mus. B. 274, 19-20, '28.  
 Felt, N. Y. St. Mus. B. 274, 154-155, '28.  
 Green, P.U.S.N.M. 66; 29, 12-13, 1925.  
 Johannsen, J. Parasitol. 13, 156, 1927.  
 ibKirby-Smith, South. Med. J. 18, 402-405, 1925.

**Wolf moth, see Tinea granella****Wolves in cattle, see Hypoderma sp.****Wood insects**

- Purdue Agr. 23, 143, 1929.

**Wood preservation**

- Rudolph, Pub. Roads, 7; 9, 192, 1926.  
 iStobart, South. Lumber, 132, 1604, 46-47, 1926.

**Wood-boring insects**

- Brues, Psyche 34, 73-90, 1927.  
 iSnyder, Save the Surface Mag. 5; 4, 11, 1925.

**Wood engravers, see Pityogenes spp.****Wood tick, see Dermacentor venustus****Woodlice**

- Beaulne, Quebec. Soc. Protec. Pl. R. 20, 86, 1928.  
 Woodward, Tex. Dept. Agr. B. 95, 150, 1929.

**Wool maggot, see Phormia regina****\*Woolly alder aphid, see Pemphigus tessellatus****Woolly apple aphid, see Eriosoma lanigerum****Woolly bear, see Isia isabella****Woolly beach leaf aphid, see Phyllaphis fagi****\*Woolly elm aphid, see Eriosoma americana****Woolly elm bark aphid, see Eriosoma rileyi****Woolly larch aphid, see Chermes strobilobius****\*Woolly pear aphid, see Eriosoma pyricola**

- Woolly pine scale, *see* *Pseudophillippia quaintancii*
- Woolly thorn aphid, *see* *Procophilus corrugatans*
- \*Woolly whitefly, *see* *Aleurothrixus howardi*
- Wyeomyia charmion*  
nDyar, Proc. Ent. Soc. Wash. 30, 111, '28.
- Wyeomyia florestan*  
Dyar, Ins. Insc. Mens. 13, 20, 1925.
- Wyeomyia* spp.—Key  
Dyar, Ins. Insc. Mens. 13, 110, 1925.
- X-Ray—Effect on insects**  
Barth, Physiol. Zool. 2, 172-180, 1929.  
Dobzhansky, Proc. Nat. Acad. Sci. 15, 633-38, 1929.  
Hanson, Science 67, 562-563, 1928.  
ibHarris, J. Heredity 20, 299-302, 1929.  
Hussey, et al, Science, 66, 65-66, 1927.  
iPainter & Muller, J. Heredity 20, 287-298, 1929.  
ibPatterson, J. Heredity 20, 261-267, '29.  
Svensen, Science, 69; 361, 1929.  
Whiting, Science, 68, 59, 1928.  
iWhiting, J. Heredity 20, 269-276, 1929.
- Xanthiriropsis* n. gen., *cataplaga*  
Dyar, Ins. Insc. Mens. 14, 146, 1926.
- Xanthoernestia* n. gen., *antennalis*  
Townsend, Ins. Insc. Mens. 14, 39, 40, '26.
- Xanthonia decemnotata*  
biPhipps, J. Ec. Ent. 19, 466-469, 1926
- Xanthopherne*—n. gen.  
nDyar & Heinrich, P.U.S.Nat.Mus 71, Art. 19, 29-30, 1928.
- Xanthopimpla xanthostigma*  
nGirault, Ins. Insc. Mens. 13, 38, 1925.
- Xanthoptera nigrofimbria*  
Bottimer, J. Agr. Res. 33, 799, 1926.
- Xanthorhoe ferugata*  
iCassino & Swett, Lepidopterist 4, 39, '25.
- Xanthoteras teres*  
nWeld, Proc. U. S. Nat. Mus. 68, Art. 10, 52-53, 1926.
- Xanthoteras tubifaciens*  
nWeld, P.U.S.N.M. 68, Art. 10, 53-54, '26.
- Xanthotype* spp.  
McDunnough, Can. Ent. 58, 119-121, '26.
- Xanthoxylum trirhabda brevicollis*  
Watson, Fla. B. 183, 410, 1926.
- Xarifa lobata*  
nFail, Can. Ent. 61, 57-58, 1929.
- Xenandra desora*  
nSchaus, Proc. Ent. Soc. Wash. 30, 49, '28.
- Xenillus clupearior*  
Jacot, Psyche, 36, 125-128, 1929.
- Xenoborus chionanthi*  
nKnight, Proc. Biol. Soc. Wash. 40, 14-15, 1927.
- Xenoborus selectus*  
nKnight, Bklyn. Ent. Soc. B. 24, 10-11, 1929.
- Xenocephalus lucidus*  
nMann, J. Wash. Acad. Sci. 16, 454-455, 1926.
- Xenocephalus panamensis*  
nMann, Psyche, 32, 166-167, 1925.
- Xenopsylla cheopis* (Oriental rat flea)\*  
Bacot & Martin, J. Hyg. 23, 98-105, '25.  
Carrion, P. R. Rev. Pub. Health 3, 4, 131-145, 1927.  
Carrion, P. R. Rev. Pub. Health R. 4; 2, 87, 1928.  
Chandler, Animal Parasites ed. 3, 417, 1925.  
Cox et al, U. S. Pub. Health R. 43, 611-616, 1928.  
Felt, N. Y. St. Mus. B. 274, 35, 1928.  
Fox & Sullivan, U. S. Pub. Health R. 40, 1904-1924, 1925.  
Hasseltine, U. S. Pub. Health R. 44, 579-589, 1929.  
Hertig & Huang, Am. J. Hyg. 10, 522, 1929.  
Hirst, J. Hyg. 24; 1, 1925.  
Williams, U. S. Pub. Health R. 44, 456, 1929.  
——Nation's Health, 8, 136, 1926.
- Xenorphipis brendeli*  
Champlain & Knull, Can. Ent. 57, 113, 1925.
- Xenosapromyza* n. sub. gen.  
nMalloch, P.U.S.N.M. 74; 6, 30, 1929.
- Xenotoma antennalis*  
nFouts, Bklyn. Ent. Soc. B. 21, 154-155, 1926.
- Xenotoma bradleyi*  
nFouts, Proc. Ent. Soc. Wash. 29, 172, 1927.



- Xenotoma curvicaudis* 155, *palustris* 153-154, *pilosa* 153, spp.—Key 150-152  
Fouts, Bklyn. Ent. Soc. B. 21, 1926.
- Xenotrachelella*—n. gen. 38, *inimica* 38-39, *oculata* 40, *vicaris* 39  
nDrake & Harris, Proc. Biol. Soc. Wash. 39, 1926.
- Xeralictus*—n. gen., *timberlakei*  
nCockerell, Pan. Pac. Ent. 4, 41-42, '27.
- Xerophloea viridis*  
Osborn, J. Ec. Ent. 19, 102, 1926.  
Osborn, P. R. Dept. Agr. J. 13, 93-94, '29.  
Osborn, Ref. Bk. Sugar. Indus. of World 4, 48, 1926.
- Xestipyge geminatum*  
Frost, Bklyn. Ent. Soc. B. 24, 34, 1920.
- Xestoblatta castanea*  
nHebard, Proc. Phila. Acad. Nat. Hist. 78, 184-185, 1926.
- Xestocephalus maculatus*  
nOsborn, P. R. Dept. Agr. J. 13, 94, '29.
- Xestoleptura crassipes*  
Hardy & Preece, Pan-Pac. Ent. 3: 1, 35-36, 1926.
- Xiphomyia auriceps*  
nAldrich, P.U.S.N.M. 69, Art. 22, 11-12, 1926.
- Xubida dentilineatella*  
Van Zwaluwenburg, J. Ec. Ent. 19, 669, 1926.
- Xyleborus celsus* (Hickory timber beetle)  
Peirson, Me. For. Serv. B. 5, 72, 1927.
- Xyleborus dispar* (Shot borer beetle)  
iPena, La Hacienda 23, 155, 1928.
- Xyleborus perforans* (West Indian shot hole borer)  
bEarle, Facts About Sugar 22, 1010, '27.  
Salt, Harvard Inst. Trop. Biol. & Med. Cont. 3, 47, 1926.
- Xyleborus saxeseni*  
Leiby, N. C. Dept. Agr. B. Feb. '25, 62.
- Xyleborus scopulorum*  
Keen, Cal. Dept. Nat. Resources B. 7, 56, 1928.
- Xyleborus* spp.  
Leiby, N. C. Dept. Agr. B. Feb. '25, 62.  
Keen, Cal. Dept. Nat. Resources B. 7, 55, 1928.
- Xylina antennata* (Green maple caterpillar, Green fruit worm)\*  
Hutchings, Quebec Soc. Protec. Pl. R. 18, 115, 1925-1926.  
Peirson, Me. For. Serv. B. 5, 83-84, '27.  
Pettit, Mich. St. Bd. Agr. R. 63, 214, '24.  
Spittall, Proc. Acadian Ent. Soc. 10, 17-20, 1925.
- Xylobiops basilaris* (Red-shouldered shot-hole borer)  
St. George, U.S.F.B. 1582, Jl. 1920, 6.
- Xylobiops sexdentatum*  
Snyder, Nat. Mag. 8, 278, 1926.
- Xylobiops* sp.  
Leiby, N. C. Dept. Agr. B. Feb. '25, 62.
- Xylococcus*—n. gen.  
nMorrison, Proc. Biol. Soc. Wash. 40, 101, 1927.
- Xylocopa fallax thompsoni*  
nCockerell, Pan-Pac. Ent. 3: 2, 87-88, '26.
- Xylocopa* sp.—Studies  
Rau, J. Comp. Psychol. 9, 35-70, 1929.
- Xylocopa varipuncta*  
iEssig, Insects of West. No. Amer. 1926, 898.
- Xylocopa virginica* (Carpenter bee)  
Rau, St. Louis Acad. Sci. Tr. 25, 162, 1927.
- Xylocopodes semiatra*  
Townsend, J. N. Y. Ent. Soc. 36, 92, '28.
- Xylocoris betulinus*  
nDrake & Harris, Proc. Biol. Soc. Wash. 39, 37, 1926.
- Xylocruius agassizi* (Black gooseberry borer)  
bChamberlin, J. Ec. Ent. 18, 674-679, '25.  
Jardine, Oreg. Bien. Rept. 1924-1926, 100, 1926.  
Jardine, Oreg. Bien. R. f. 1926-28, 103-104, 1928.  
Mote, Cal. Dept. Agr. Sp. Pub. 85, 53, 1928.
- Xylodrepa quadripunctata*  
Burgess & Crossman, U. S. Tech. B. 86, 119, 1929.
- Xylomyges eridania*, (Southern army-worm)\*  
Crumb, Brooklyn Ent. Soc. B. 22, 51, 1927.

- Knowlton, Fla. Ent. 12, 4, 62-63, 1928.  
 Thomas, J. Ec. Ent. 22, 596-597, 1927.
- Xylomyges vanduzeei**—Cal.  
 nVan Duzee, Pan-Pac. Ent. 3; 1, 12, 1926.
- Xyloryctes satyrus**  
 iGlasgow, Ann. Ent. Soc. Amer. 20, 127-129, 1927.
- Xylota argoi**  
 nShannon, P.U.S.N.M. 69, Art. 9, 38, '26.
- Xylota aristata**  
 nJohnson, Psyche 36, 374-375, 1929.
- Xylota chalybea**  
 Curran, Can. Ent. 58, 114, 1926.
- Xylota confusa**  
 nShannon, P.U.S.N.M. 69, Art. 9, 30-31, 1926.
- Xylota lovetti**  
 Curran, Can. Ent. 57, 44, 1925.
- Xylota metallica**  
 Curran, Can. Ent. 58, 114, 1926.
- Xylota oregona, plesia**  
 nCurran, Can. Ent. 57, 44-45, 1925.
- Xylota rainieri**  
 nShannon, P.U.S.N.M. 69, Art. 9, 34-35, 1926.
- Xylota subtropicus**  
 nCurran, Can. Ent. 57, 44, 1925.
- Xylota viridaenea**  
 nShannon, P.U.S.N.M. 69, Art. 9, 33, '26.
- Xylotini**—American  
 Shannon, P.U.S.N.M. 69, Art. 9, 1926, 52 p.
- Xylotodes**—n. gen. 22-23, *brevipilosus* 23, *sacajawea* 24-25, spp.—Key 23  
 nShannon, P.U.S.N.M. 69, Art. 9, 1926.
- Xylotomima**—n. gen. 15-16, *dubia* 22  
 nShannon, P.U.S.N.M. 69, Art. 9, 1926.
- Xylotrechus abietis**  
 Van Dyke, Pan-Pac. Ent. 5, 136, 1929.
- Xylotrechus aceris (Gall-making maple borer)**  
 Champlain, Kirk & Knoll, Ent. News 36, 139, 1925.
- Xylotrechus bowditchi**  
 nHopping, Can. Ent. 60, 247, 1928.
- Xylotrechus cinereus, see Xylotrechus abietis**
- Xylotrechus colonus (Rustic borer)\***  
 Champlain, Kirk & Knoll, Ent. News 36, 139, 1925.
- Xylotrechus fuscus**  
 Peirson, Me. For. Serv. B. 5, 70, 1927.
- Xylotrechus quadrimaculatus**  
 Champlain, Kirk & Knoll, Ent. News 36, 108, 1925.
- Xylotrechus schaefferi**  
 niSchott, J.N.Y. Ent. Soc. 33, 224-225, '25.
- Xylotrechus undulatus (Wavy spruce borer)**  
 Hardy & Preece, Pan-Pac. Ent. 3; 1, 39, 1926.
- Xyphidria provancheri**  
 Peirson, Me. For. Serv. B. 5, 44, 1927.
- Xystus brassicae**  
 Spencer, Ann. Ent. Soc. Amer. 19, 148-149, 1926.
- Yellow and black mud dauber, see Sceliphron servillei**
- Yellow ant, see Lasius interjectus**
- Yellow fever**  
 Matas, La. Hist. Quar. July 1925, 449-473, 1926.  
 Peabody, Conquest of yellow fever, Am. Mus. Nat. Hist. Dept. Ed., 1929, 33 p.  
 Russell, Rockefeller Found. Internat. Health Bd. R. 11, 5-10, 1925.  
 iVincent, Rockefeller Found. Rev. 1925, 18, 13-19, 1926.  
 Winter, Internat. Clinic, Phila. 36, (ser. 2), 292-307, 1926.  
 ———J. Amer. Med. Assoc. 87, 1480, 1926.  
 iRockefeller Found. Internat. Health Bd. R. 12, 96-107, 1926.  
 ———U. S. Pub. Health R. 43, 2031-2037, 1928.
- Yellow fever and Mosquitoes other than Aedes**  
 Bayer, J. Am. Med. Assoc. 90; 26, 2091, 1928.
- \*Yellow-fevermosquito, see Aedes aegypti**
- Yellow-headed fireworm, see Peronea minuta**
- Yellow-headed cutworm, see Hadena arctica**

- Yellow leafhopper, *see* *Thamnotettix smithi*  
 Yellow-legged mud dauber, *see* *Sceliphron caementarium*  
 Yellow-lined grasshopper, *see* *Schistocerca aleutica*  
 \*Yellow meal worm, *see* *Tenebrio molitor*  
 \*Yellow-necked caterpillar, *see* *Datana ministra*  
 Yellow pine sawfly, *see* *Diprion fulvipes*  
 Yellow pine shot-hole borer, *see* *Xyleborus scopulorum*  
 Yellow spotted willow slug, *see* *Pteronidea ventralis*  
 \*Yellow-striped armyworm, *see* *Prodenia ornithogalli*  
 Yellow sugarcane aphid, *see* *Sipha flava*  
 Yellow wasp, *see* *Macrocentrus ancylivora*  
 \*Yellow woolly bear, *see* *Diacrisia virginica*  
 Yosemiteia graciella, longipennella  
 Dyar, Ins. Insc. Mens. 13, 220, 1925.  
 Yponomeuta malinella  
 iNeedham, Frost & Tothill, Leaf-mining insects, 1928, 171-173.  
 Yponomeuta padellus  
 Drake, Iowa Yrbk. Agr. 28, 135, 1928.  
 Ypsolophus marginellus (Juniper webworm)  
 iBritton & Zappe, Conn. B. 292, 161, '27.  
 Ypsolophus marginella—Eradicated  
 Cal. Dept. Agr. Mo. B. 17, 17-19, 1928.  
 Yucca moth, *see* *Tegeticula alba*  
  
 Zabrotes pectoralis  
 iBessig, Insects of West. No. Amer. 1926, 487-488.  
 Zacallites balli  
 nCockerell, Ent. News 39, 299-301, '28.  
 Zacallitidae—n. family  
 niCockerell, Ent. News 39, 298, 1928.  
 Zachrestoides n. gen., euphydryadis  
 Viereck, Can. Ent. 58, 2-3, 1926.  
 Zacotus matthewsi  
 Van Dyke, Pan-Pac. Ent. 2, 95, 1925.  
 Zacotus subopacus  
 nHopping, Can. Ent. 57, 206, 1925.  
 Zachrestoides n. gen.  
 Viereck, Can. Ent. 57, 179, 1925.  
 Zachrestoides intermedia  
 nViereck, Can. Ent. 58, 3, 1926.  
 Zadipton townsendi  
 Rohwer, J. Wash. Acad. Sci. 17, 173, '27.  
 Zale gen.  
 iHaimbach, Trans. Amer. Ent. Soc. 54, 215-232, 1928.  
 Zale meridiana, mexicana  
 nHaimbach, Trans. Amer. Ent. Soc. 54, 217, 222-223, 1929.  
 Zale smithi  
 niHaimbach, Trans. Amer. Ent. Soc. 54, 221-222, 1928.  
 Zale termina  
 Barnes & Benjamin, Bklyn. Ent. Soc. B. 20, 197, 1925.  
 Zanclognatha jacchusalis, martha  
 nBarnes, Pan-Pac. Ent. 5, 10-11, 1928.  
 Zapata bucculenta, saluator  
 niRehn, Trans. Amer. Ent. Soc. 53, 219-226, 1927.  
 Zapata—Key to species  
 Rehn, Trans. Amer. Ent. Soc. 53, 218-219, 1927.  
 Zaplatystoma n. gen. 6, cinereum 7-8, decorum 31, egregius 30, johnsoni 32, latum 7, mimeticum 31, ocellatum 8, petiolatum 31, simplex 30-31, typicum 7  
 nViereck, Can. Ent. 58, 1926.  
 Zarhipis riversi  
 Davis, Pan-Pac. Ent. 2, 210, 1926.  
 Zaschisonyx montana  
 Ross, Can. Ent. 61, 272, 1929.  
 Zatapinoma annandalei  
 nWheeler, Proc. New Eng. Zool. Club 10, 19-23, 1928.  
 Zatingis extraria  
 nDrake, Iowa St. Col. J. Sci. 3, 45, 1928.  
 Zatropis sp.  
 Balduf, Can. Ent. 58, 160, 1926.  
 Zatropis tortricidis  
 Flanders, Pan-Pac. Ent. 2, 158, 1926.  
 Zeiraphera fortunana  
 Macandrews, Can. Ent. 59, 27-29, '27.  
 \*Zebra caterpillar, *see* *Ceramica picta*  
 Zebra swallow-tail, *see* *Papilio ajax*

- Zeiraphera vancouverana**  
 niMcDunnough, Can. Ent. 57, 21, 1925.
- Zelus (Pindus) angustatus**  
 nHussey, J.N.Y. Ent. Soc. 33, 66-67, '25.
- Zenillia caesar**  
 Baldus, Ohio J. Sci. 29, 238, 1929.
- Zenillia caesar**  
 Baird, Ont. Ent. Soc. R. 59, 39, 1929.
- Zenillia devastator, fuscicosta**  
 nCurran, Amer. Mus. Nov. 258, 3-5, '27.
- Zenillia futilis**  
 Learned, Bklyn. Ent. Soc. B. 22, 219, '27.
- Zenillia insolita**  
 nCurran, Amer. Mus. Nov. 258, 5-6, '27.
- Zenillia livatrix**  
 Burgess & Crossman, U. S. Tech. B. 86, 115, 1929.
- Zenillia roseanae**  
 Jones, U.S.D.A. Tech. B. 98, 3, 1929.
- Zenillia tenor**  
 nCurran, Amer. Mus. Nov. 258, 5, 1927.
- Zenillia vulgaris**  
 Gorham, Proc. Acad. Ent. Soc. 10, 59, 1925.
- Zenilliana**—n. subgen.  
 nCurran, Amer. Mus. Nov. 258, 3, 1927.
- Zenodochium citricolella**  
 Bottimer, J. Agr. Res. 33, 814, 1926.
- Zenophelps alpinata**  
 nCassino, Lepidopterist 4, 59, 1927.
- Zenopsylla cheopis**  
 Carrion, P. R. Health Rev. 3; 4, 139-145, 1927.
- Zerene**—U. S.  
 Gunder, Pan-Pac. Ent. 4, 97-102, 1928.
- Zerene caesonia (Dog head butterfly)**  
 Bell, Bklyn. Ent. Soc. B. 21, 26, 1926.
- Zerene eurydice (California dog head, California State butterfly)**  
 iGunder, Ent. News 40, 318, 1929.  
 Gunder, Pan-Pac. Ent. 6, 88-90, 1929.
- Zetes arborea** 26-27, **banksi** 27, **californiae** 27, **corrugis** 28, **ithacensis** 28, **louisianae** 28-29, **sequoiae** 29
- nibJacot, B. Harvard. Mus. Comp. Zool. 69, 1929.
- Zeugophora**—Key to Western species  
 Brisley, Pan. Pac. Ent. 4, 114-116, '28.
- Zeugophora abnormis**  
 deGryse, Can. Dept. Agr. Ent. Br. Pam. 47 n.s. rev. ed. 14, 1925.
- Zeugophora scutellaris**  
 deGryse, Can. Dept. Agr. Ent. Br. Pam. 47 n.s. rev. ed. 14, 1925.  
 Needham, Frost & Tothill, Leaf-mining insects, 1928, 204-205.
- \*Zeuzera pyrina (Leopard moth)**  
 bBritton, Nat. Shade Tree Conf. Proc. 5, 75-77, 1929.  
 iBritton & Zappe, Conn. B. 292, 120, '27.  
 Britton, Internat. Cong. Ent. 4, Tr. 2, 286-289, 1929.  
 Jacobssen, Cal. Agr. B. 14, 150, 1926.  
 Lipman, N. J. R. 50, 148, 1929.  
 Peirson, Me. For. Serv. B. 5, 92, 1927.  
 iSeaver, Tree Talk 8; 4, 10-12, 1928.
- Zirta luacesi**  
 nBruner & Fracker, Ann. Ent. Soc. Amer. 19, 250-251, 1926.
- Zodion albifacies** 588, **angusticornis** 589, **basalis** 586, **bilineata** 586-587, **cinereiventris** 585-586, **hirtipes** 587-588  
 nVan Duzee, Cal. Acad. Sci. Proc. 16; 18, 1927.
- Zomaria n. gen., spp.**—Key  
 iHeinrich, U.S.N.M.B. 132, III-III2, '26.
- Zonemyia, n. gen., spinosa**  
 Shannon, Proc. Ent. Soc. Wash. 27, 109-110, 1925.
- Zonitis arizonica**  
 nVan Dyke, Bklyn. Ent. Soc. B. 24, 132-133, 1929.
- Zonitoides arboreus**  
 Hinds, La. R. f. 1926, 101, 1926.  
 Rands, Sugar B. 4; 18, 2, 1926.
- Zonitoides minuscula**  
 Blake, Ill. Biol. Monog. 10; 4, 79, 1926.
- Zoology Colorado**  
 Cockerell, Zool. of Colo. 1927, 262 p.
- Zoology—Nomenclature**  
 Barnes & Benjamin, Proc. Ent. Soc. Wash. 28, 86-92, 1929.  
 Bradley, Sci. 68, 102-104, 1928.  
 Calvert, Ent. News, 38, 185-186, 1927.  
 Felt, Science, 65, 489-491, 1927.  
 Heikertinger, Internat. Cong. Ent. 4, Tr. 2, 481-483, 1929.

**Zoology—Nomenclature *Cont'd***

- Kennedy, Internat. Cong. Ent. 4, Tr. 2, 665-672, 1929.  
 McAtee, Proc. Ent. Soc. Wash. 30, 72-76, 1928.  
 McAtee, Proc. Ent. Soc. Wash. 30, 150-152, 1928.  
 bMelander, Internat. Cong. Ent. 4, Tr. 2, 657-664, 1929.  
 Stiles, Ent. News 38, 241, 1927.  
 Stiles, J. Ec. Ent. 20, 742, 1927.  
 Stiles, Ent. News 39, 128-129, 1928.  
 Stiles, Internat. Cong. Ent. 4, Tr. 2, 622-645, 1929.  
 Verity, Internat. Cong. Ent. 4, Tr. 2, 470-480, 1929.
- Zoology nomenclature — International rules**  
 Stiles, U. S. Pub. H. R. 42, 2639-2640, 1927.  
 ———Proc. Biol. Soc. Wash. 39, 75-104, 1926.
- Zoophilous moths**  
 Shannon, Science 68, 461-462, 1928.

- Zopheroteras spp.—Key, sphaerula**  
 Weld, P.U.S.N.M. 68, Art. 10, 56-57, '26.
- Zophodia grossulariae (Gooseberry fruit worm)\***  
 Dyar, Ins. Insc. Mens. 13, 221, 1925.
- Zophodia holochlora, purgatoria**  
 nDyar, Ins. Insc. Mens. 13, 15, 222, '25.
- Zorotypus longicercatus**  
 niCaudell, Proc. Ent. Soc. Wash. 29, 144-145, 1927.
- Zygogramma exclamationis**  
 Brisley, Trans. Amer. Ent. Soc. 51, 170, 1925.
- Zygops gen.**  
 iBoving, Proc. Ent. Soc. Wash. 28, 59-60, 1926.
- Zygoptera—Key to genera**  
 bSeemann, J. Ent. & Zool. 19, 6-8, 1927.
- Zygothrips californicus**  
 nMason, Pan-Pac. Ent. 2, 156-157, 1926.
- Zygothrips speciosus**  
 nHood, Psyche 32, 56-57, 1925.



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